EN 778

1973 Volume 43 Annual Indexes

Plant breeding abstracts

THE COMMONWEALTH BUREAU OF PLANT BREEDING AND GENETICS

Department of Applied Biology,
Cambridge, CB2 3DX, England

Consultant Director:
Prof. J.W.L. Beament, Sc.D., F.R.S., Drapers' Professor of Agriculture
Director: R.H. Richens, M.A., Ph.D.
Assistant Director: Miss O. Holbek, B.Sc.
Scientific Information Officers: B.F. Cooper, M.A., Ph.D.
Mrs. I.M. Davies, B.Sc.
B.E. Heiseler
Mrs. S. Jellis, B.A.
J.E. Loder, M.Sc.
F.E. Morgan, B.A.
G.J. Turner, B.Sc., Ph.D.

The Commonwealth Bureau of Plant Breeding and Genetics is part of the Commonwealth Agricultural Bureaux, an organisation financed by the Commonwealth for the dissemination of information on agricultural research.

Plant Breeding Abstracts is a monthly journal prepared by the Bureau and published by the Commonwealth Agricultural Bureaux.

Annual subscription rates

to subscribers in non-contributing countries	£35.00 $91.00
to subscribers in contributing countries	£14.00

Single sided copies of the journal are available at £2 extra.

Back numbers. Volumes 1-40 are now available at £21.00 ($55.00) per volume and Volume 41 at £35.00 ($91.00) per volume.

Note. Every effort is made to make *Plant Breeding Abstracts* as complete as possible, and to notice all important papers referring to plant breeding or the genetics of crop plants. Authors are requested to assist in the work by sending reprints of papers as soon as possible after publication to the Director, Commonwealth Bureau of Plant Breeding and Genetics, Department of Applied Biology, Cambridge, CB2 3DX, England.

Orders and enquiries concerning subscriptions and back numbers should be sent to:

CENTRAL SALES BRANCH,
COMMONWEALTH AGRICULTURAL BUREAUX,
FARNHAM ROYAL, SLOUGH SL2 3BN, ENGLAND.

Photocopies of abstracted papers can be supplied by the Bureau at 7p per page by surface mail or 8p per page by 2nd class airmail. An application and copyright declaration form is printed on the inside back cover. This form (which may be copied) should be signed and returned to the Bureau.

© *Commonwealth Agricultural Bureaux, 1973.* All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photo-copying, recording or otherwise, without the prior permission of the copyright owner.

The Executive Council of the Commonwealth Agricultural Bureaux is a signatory to the Fair Copying Declaration, details of which can be obtained from The Royal Society, 6 Carlton House Terrace, London, S.W.1.

The Commonwealth Agricultural Bureaux Organisation does not accept responsibility for any trade advertisement included in this publication.

PLANT BREEDING ABSTRACTS

Volume 43

Prepared by

Commonwealth Bureau of
Plant Breeding and Genetics, Cambridge
1973

ISSN 0032-0803

© *Commonwealth Agricultural Bureaux 1974*

All rights reserved. No part of this publication may be reproduced in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without the prior permission of the copyright owner

The Executive Council of the Commonwealth Agricultural Bureaux is a signatory to the Fair Copying Declaration, details of which can be obtained from The Royal Society, 6 Carlton House Terrace, London, S.W.1

Published by

Commonwealth Agricultural Bureaux,
Farnham House, Farnham Royal,
SLOUGH SL2 3BN, UK

Printed by

UNWIN BROTHERS LTD., THE GRESHAM PRESS, OLD WOKING, SURREY, U.K.

PLANT BREEDING ABSTRACTS

Volume 43

CONTENTS

Abstracts													
Genetics	1	69	135	197	267	335	387	457	531	613	687	763
Cytology	2	70	137	199	269	335	388	458	534	614	689	764
General botany	4	71	137	201	270	336	389	458	534	616	690	764
Evolution	4	72	137	201	–	337	389	459	534	–	690	765
Taxonomy	5	72	138	–	–	–	–	–	–	–	690	765
Crop plants (including general crop reports)	5	72	138	201	270	337	389	459	535	616	691	766
Cereals	7	75	142	204	275	340	392	462	542	622	697	767
Wheat	8	76	143	205	277	341	392	463	543	623	698	768
Oats	16	84	148	214	289	348	400	471	552	633	706	778
Rye	17	85	149	215	289	348	400	472	553	633	707	779
Maize	18	85	149	215	291	349	401	473	553	635	708	780
Barley	21	90	154	219	296	353	406	477	558	638	715	786
Millets	23	92	156	223	298	355	409	479	561	641	717	788
Rice	25	93	158	224	301	356	410	482	563	642	719	790
Minor cereals	–	95	–	225	–	358	416	484	–	644	720	791
Grasses (including general studies of herbage crops: *Panicum*, *Pennisetum* and *Sorghum* are treated under 'Millets')	28	95	159	226	301	358	416	485	565	646	721	791
Leguminous forage crops (including all herbage crops except grasses) ...	31	97	162	228	303	359	418	487	567	646	724	794
Roots and tubers	33	100	164	232	305	360	421	490	570	649	727	797
Fibres	36	102	167	235	308	363	424	493	574	652	729	800
Sugar and starch plants	39	106	171	237	309	363	425	496	579	656	732	803
Stimulants	41	108	172	238	311	365	428	499	581	657	734	807
Oil plants (linseed is treated under 'Fibres')	43	110	175	242	313	367	430	503	584	660	736	808
Minor crop plants	45	113	178	244	315	368	432	504	587	662	738	810
Fruits (including general horticultural reports)	46	114	179	244	315	369	434	505	588	664	739	811
Vine	51	119	184	250	319	375	439	512	595	670	750	818
Nuts	52	119	185	254	321	376	442	515	596	673	–	820
Forest trees (chestnut is treated under 'Nuts')	53	120	185	254	321	376	442	515	597	673	751	820
Vegetables (mustard is treated under 'Oil plants', *Hibiscus* under 'Fibres')	55	124	187	256	323	378	445	517	600	675	752	821
Lower plants	67	–	196	265	334	385	454	529	–	–	761	–
Book reviews	67	–	196	265	–	385	454	–	612	684	762	830
New journals	67	133	–	–	–	–	–	–	612	–	–	830
Author index	831											
Author index additions	868											
Subject index	869											
Subject index additions	950											

COMMONWEALTH BUREAU OF PLANT BREEDING AND GENETICS

Department of Applied Biology,
Cambridge, CB2 3DX, England

Consultant Director:
Prof. J.W.L. Beament, Sc.D., F.R.S., Drapers' Professor of Agriculture
Director: R.H. Richens, M.A., Ph.D.
Assistant Director: Miss O. Holbek, B.Sc.
Scientific Information Officers: B.F. Cooper, M.A., Ph.D.
Mrs. I.M. Davies, B.Sc.
B.E. Heiseler
Mrs. S. Jellis, B.A.
J.E. Loder, M.Sc.
F.E. Morgan, B.A.
G.J. Turner, B.Sc., Ph.D.

The Commonwealth Bureau of Plant Breeding and Genetics is part of the Commonwealth Agricultural Bureaux, an organisation financed by the Commonwealth for the dissemination of information on agricultural research.

Plant Breeding Abstracts is a monthly journal prepared by the Bureau and published by the Commonwealth Agricultural Bureaux.

Key to symbols for languages

Af	Afrikaans	En	English	Ja	Japanese	Ro	Rumanian (Românesc)
Al	Albanian	Eo	Esperanto	Ko	Korean	Ru	Russian
Ar	Arabic	Es	Spanish (Español)	La	Latin	Sh	Serbo-croat (in either script)
Be	White Russian (Belorusskiĭ)	Fi	Finnish	Li	Lithuanian	Sk	Slovak
Bg	Bulgarian	Fr	French	Lv	Latvian	Sn	Slovene
Ch	Chinese	Gr	Greek	Ma	Macedonian	Sr	Serbian (Serbo-croat in Cyrillic script)
Cr	Croat (Serbo-croat in Latin script)	He	Hebrew	Nl	Dutch or Flemish (Nederlands)	Sv	Swedish (Svensk)
Cs	Czech (Český)	Hu	Hungarian	No	Norwegian	Tr	Turkish
Da	Danish	Ia	Interlingua	Pe	Persian	Uk	Ukrainian
De	German (Deutsch)	In	Indonesian	Pl	Polish		
Ee	Estonian (Eesti)	Is	Icelandic (Íslenzk)	Pt	Portuguese		
		It	Italian				

CAB

The Commonwealth Agricultural Bureaux (CAB), a co-operative venture established by the Commonwealth, provides the only comprehensive information service for agricultural research workers. This is based on a series of 19 abstract journals which cover the whole range of agricultural science. These journals have a large, world-wide readership.

Other services provided by CAB include:

bibliographies, with or without annotations.

review articles.

publication of technical monographs, some of which are standard works.

answering enquiries arising from any aspect of agricultural science (charges being made where extensive research is required).

photocopies.

provision of identification services for entomologists, mycologists and helminthologists.

control of animal and plant pests by their natural enemies (i.e. biological control services)

The work of CAB is largely carried out through a number of Institutes and Bureaux, each dealing with a particular aspect of agricultural science. The abstract journals are produced using computer methods, and the whole data base, from the beginning of 1973 onwards, is in computer-readable form. Experimental tapes covering the field of animal health are already available; tapes for other subject areas will become so progressively.

Enquiries should be sent as follows, to the addresses listed below:-

(i) any aspect of agricultural science – to the appropriate Institute or Bureau Director.

(ii) the computerized system, magnetic tapes, or services arising therefrom – to the Systems Manager, Farnham House.

(iii) CAB publications – to Central Sales Branch, Farnham House.

(iv) general or administrative matters – to the Secretary, Farnham House.

Liaison Officers in the member countries welcome comments, suggestions or enquiries on CAB services.

Institutes

Commonwealth Institute of Entomology, 56 Queen's Gate, London SW7 5JR
Director: R.G. Fennah, ScD, MA, AICTA, FIBiol.
Commonwealth Mycological Institute, Ferry Lane, Kew Richmond TW9 3AF
Director: A. Johnston, BSc, AICTA, FIBiol.
Commonwealth Institute of Biological Control, Gordon Street, Curepe, Trinidad, West Indies
Director: F.J. Simmonds, MA, PhD, DSc, FRSA.
Commonwealth Institute of Helminthology, The White House, 103 St. Peter's Street, St. Albans, Herts.
Director: Miss S.M. Willmott, PhD, FIBiol.

Bureaux

Agricultural Economics, Dartington House, Little Clarendon Street, Oxford OX1 2HH
Director: J.O. Jones, MA.
Animal Breeding and Genetics, Animal Breeding Research Organization, The King's Buildings, West Mains Road, Edinburgh EH9 3JX
Director: J.D. Turton, BSc, MRCVS, DTVM.
Animal Health, Central Veterinary Laboratory, New Haw, Weybridge, Surrey
Director: M.R. Dhanda, LVP, MS, DipBact.
Dairy Science & Technology, National Institute for Research in Dairying, Shinfield, Reading RG2 9AT
Director: E.J. Mann, NDD, CDD.
Forestry, Commonwealth Forestry Institute, South Parks Road, Oxford OX1 3RD
Director: P.G. Beak, MBE, MA.
Horticulture & Plantation Crops, East Malling Research Station, Nr. Maidstone, Kent.
Director: G.E. Tidbury, BSc, ARCS, AICTA, FIBiol.
Nutrition, Rowett Research Institute, Bucksburn, Aberdeen AB2 9SB.
Director: Miss D.L. Duncan, BSc, PhD.
Pastures & Field Crops, Hurley, Maidenhead SL6 5LR.
Director: P.J. Boyle, MA
Plant Breeding & Genetics, Department of Applied Biology, Downing Street, Cambridge CB2 3BX
Director: R.H. Richens, MA, PhD.
Soils, Rothamsted Experimental Station, Harpenden AL5 2JQ
Director: W.D. Brind, BScAgr.

Headquarters, Central Sales Branch and Systems Group

Farnham House, Farnham Royal, Slough SL2 3BN. UK

Secretary, CAB: E.A. Runacres
Systems Manager: G.A. Somerfield, MA, BSc, DPhil

Finance and organization

CAB's finance comes from the income from the sale of its journals and other services and from contributions made by each of the member countries, according to a formula agreed from time to time by those members.

The organization is controlled by an Executive Council composed of nominees of the various Commonwealth Governments, including one for the Dependent Territories. On the following pages is shown a list of the present members of the Executive Council, together with the names of the Liaison Officers, who form the primary link in the member countries.

EXECUTIVE COUNCIL

(as at 1 January, 1974)

Member	*Representing*
R.D. CROLL (Chairman)	Australia
T.N. TANDON (Vice-Chairman)	India
G.M.P. MYERS, ...	United Kingdom
J.W. GREENWOOD	Canada
V. ARMSTRONG, PhD.	New Zealand
P.M.D. FERNANDO	Sri Lanka
Mrs. A.Y. AGGREY-ORLEANS	Ghana
M. SANI	Malaysia
U.K. BELLO	Nigeria
(To be nominated)	Cyprus
H.E. THE HIGH COMMISSIONER	Sierra Leone
(To be nominated)	Tanzania
THE DEPUTY HIGH COMMISSIONER	Jamaica
P. HEZEKIAH	Trinidad & Tobago
N.K. IRUMBA	Uganda
H.E. THE HIGH COMMISSIONER	Kenya
M.V. PHIRI	Malawi
(To be nominated)	Zambia
B.A. BALDEH	The Gambia
R.E. CHANDISINGH	Guyana
H.E. THE HIGH COMMISSIONER	Botswana
THE DEPUTY HIGH COMMISSIONER	Barbados
B. APPADOO	Mauritius
R.M. MOTSA	Swaziland
K.R. BAIN	Fiji
D.M. KITCHING	Dependent Territories

D.G. THOMAS, Secretary, Commonwealth Scientific Committee (Observer)

E.A. RUNACRES (Secretary) ... ... Farnham Royal, Slough, SL2 3BN

LIAISON OFFICERS

Contributing country	*Liaison Officer*	*Address*
United Kingdom	Under Secretary	Agricultural Research Council, 160, Great Portland Street, London W1N 6DT
Canada	G.M. Carman, BSA, MSc, PhD.	Director, Information Division, Administration Branch, Canada Department of Agriculture, 1105, Sir John Carling Building, Ottawa, Ontario, K1A 0C7
Australia	P.F. Butler, MAgrSc.	Assistant Secretary, (Agricultural & Biological Sciences) Commonwealth Scientific and Industrial Research Organization, PO Box 225, Dickson, A.C.T.2602.
New Zealand	I.L. Baumgart, BA, BSc.	Assistant Director-General, Department of Scientific and Industrial Research, Private Bag, Wellington.
India	M.S. Swaminathan, BSc, BScAgr, PhD, AIARI, FNI	Director-General, Indian Council of Agricultural Research, Krishi Bhavan, New Delhi 1.
Sri Lanka	J.W.L. Peiris, PhD, DIC, DipAgr.	Deputy Director of Agriculture (Research) Central Agricultural Research Institute, Gannoruwa, Peradeniya.
Ghana	General Secretary	Council for Scientific and Industrial Research, PO Box M.32, Accra

Malaysia	Permanent Secretary	Ministry of Agriculture and Co-operatives, Swettenham Road, Kuala Lumpur.
Nigeria	Secretary	Agricultural Research Council of Nigeria, Private Mail Bag 5382, Moor Plantation, Ibadan.
Cyprus	R. Chr. Michaelides, BScAgr, NDA, DipAgrEc.	Director-General, Ministry of Agriculture and Natural Resources, Nicosia.
Sierra Leone	Research Co-ordinator	Njala University College, Njala.
Tanzania	Director of Agriculture	PO Box 9071, Dar-es-Salaam.
Jamaica	L.E. McLaren, BSc, MRCVS, PhD, MIBiol.	Technical Officer, Ministry of Agriculture, PO Box 480, Kingston 6.
Trinidad & Tobago	Chief Technical Officer (Agriculture)	Ministry of Agriculture, Lands and Fisheries, St. Clair Circle, Port-of-Spain, Trinidad.
Uganda	Commissioner of Agriculture	Ministry of Agriculture, Forestry and Co-operatives, Department of Agriculture, PO Box 2, Entebbe.
Kenya	Under Secretary	Ministry of Agriculture, PO Box 30028, Nairobi.
Malawi	P. Brown, BA, DTA.	Chief Agricultural Research Officer, Ministry of Agriculture, PO Box 303, Zomba.
Zambia	Permanent Secretary	Ministry of Rural Development, PO Box RW.197, Lusaka.
The Gambia	L.J. Marenah, BScAgr, PhD, DipAgr, DTA.	Director of Agriculture, Department of Agriculture, Cape St. Mary.
Guyana	H.A.D. Chesney	Principal Agricultural Officer (Research) Ministry of Agriculture and Natural Resources, Central Agricultural Station, Mon Repos, East Coast Demerara.
Botswana	The Permanent Secretary	Ministry of Agriculture, Private Bag 3, Gaborone.
Barbados	Chief Agricultural Officer	Ministry of Agriculture, Commerce, Science and Technology, Crumpton Street, Bridgetown.
Mauritius	B.D. Roy	Chief Agricultural Officer, Agricultural Services, Reduit.
Swaziland	O.Z. Dhlamini	Under Secretary, Office of Permanent Secretary, Ministry of Agriculture, PO Box 162, Mbabane.
Fiji	Secretary	Agriculture, Fisheries and Forests, Suva.
Dependent Territories	A.R. Melville, CMG, BSc, AICTA	Agricultural Adviser, Overseas Development Administration, Eland House, Stag Place, London, SW1E 5DH
Republic of Ireland	J.C. Doherty, BL.	Assistant Principal Officer, Department of Agriculture and Fisheries (Development Division), Upper Merrion Street, Dublin 2.

ERRATA

(lines are counted from the beginning of the bibliographic data in each item.)

Volume 43

Page	*Abstract*	*Line*	
393	4835	4	between 'cultivated' and 'varieties' insert 'wheat'
403	4949	8	for '*lacrymajobi*' read '*lacryma-jobi*'
405	4978	8	for '*Ostinia*' read '*Ostrinia*'
415	5105	7	between 'Nine' and 'varieties' insert 'rice'
418	5140	2	for '*Ishaemum*' read '*Ischaemum*'
430	5294	10-11	for 'more of the none' read 'none of the five'
435	5366	1	for '***Cydia***' read '***Cydonia***'
442	5459	3	for '*Melamsora*' read '*Melampsora*'
449	5541	11	for '*satittifolia*' read '*sagittifolium*'
454/5	5602	25	between 'only' and 'were' insert 'when secondary sources'
459	5626	7	for '*Jasminium*' read '*Jasminum*'
461	5672	13	for '*gramonis*' read '*graminis*'
464	5707	1	for 'drum' read 'durum'
465	5714	1	for 'SARGYAN' read 'SARGSYAN'
468	5751	6	before 'varieties' insert 'wheat'
485	5935	3	for 'Zeilstellung' read 'Zielstellung' and for 'genenwärtiger' read 'gegenwärtiger'
486	5956	8,16,22,26	for '*dasystachum*' read '*dasystachyum*'
492	6023	1	for 'KANG-CHIEN LIU' read 'LIU, K.-C.'
516	6315	9	for '*Melamosora*' read '*Melampsora*'
522	6399	5	between 'new' and 'varieties' insert 'tomato'
526	6454	9	for 'Horosoy' read 'Harosoy'
540	6635	6	for 'Mezžotnes' read 'Mežotnes'
540	6638	8	for '*Phyloxera*' read '*Phylloxera*'
558	6854	2	for '**varietiea**' read '**varieties**'
562	6897	5	for '*p.*' read '*P.*'
567	6963	9	for '*semicocarpa*' read '*sericocarpa*'
567	6963	13	for '*Mecicago*' read '*Medicago*'
571	7004	3	for 'prcoci' read 'precoci'
575/6	7062	17	for '*harknessi*' read '*harknessii*'
575/6	7062	24	for '*harknesii*' read '*harknessii*'
593	7287	2	for '***friedrichsthaliamum***' read '***friedrichsthalianum***'
593	7290	7	for '*duperreans*' read '*duperreana*'
598	7356	5	for 'Kifern' read 'Kiefern'
600	7380	5	for 'IN' read 'in'
601	7395	10	for '*Mathiola*' read '*Matthiola*'
607	7463	3	for '***Xanthomas***' read '***Xanthomonas***'
607	7464	1	for '***Xanthomomas***' read '***Xanthomonas***'
608	7481	3	for '*Ştiinţfice*' read '*Ştiinţifice*'
609	7484	3-4	for '*Šaruaslyk Sylymynyn Habarsysy*' read '*Šaruašylyk Ğylymynyn Habaršysy*'
623	7675	27	for '*pruinfera*' read '*pruinifera*'
623	7675	32	for '*Nodosa*' read '*nodosa*'
623	7675	35	for '*Pulcherrima*' read '*pulcherrima*'
623	7675	42	for '*trangulata*' read '*strangulata*'
625	7692	13	for 'Norim' read 'Norin'
632	7764	5	for '*graministritici*' read '*graminis tritici*'
645	7905	8	for '*Rubra*' read '*rubra*'
645	7907	7	for '*phleum*' read '*Phleum*'
646	7924	5	for '*Japonicum*' read '*japonicum*'
653	7996	6	for '5-methylcystosine' read '5-methylcytosine'
655	8026	1	for 'NEVINNÜ' read 'NEVINNÜH'
663	8121	3	for '*Qualities*' read '*Qualitas*'
663	8121	4	for '*Vegetables*' read '*Vegetabiles*'
663	8121	12	for 'capasaicin' read 'capsaicin'
669	8185	3	for '*citropthora*' read '*citrophthora*'
673	8236	8	for '*mollisima*' read '*mollissima*'
674	8248	11	for '*Populs*' read '*Populus*'
674	8251	10	for '*hippophaifolia*' read '*hippophaefolia*'
674	8253	1	after '**8253**' insert 'FÖRENINGEN SKOGTRÄDSFÖRÄDLING; INSTITUTET FÖR SKOGSFORBÄTTRING
675	8269	3	for '***porvum***' read '***porrum***'
676	8278	3	for '**valence stages**' read '**ploidy levels**'
677	8287	5	delete '*–321971*'
680	8321	2	for '***Asochyta***' read '***Ascochyta***'
688	8387	13	for '*Hieracum*' read '*Hieracium*'
706	8636	8	for '*ventricose*' read '*ventricosa*'
707	8645	16	between 'for' and 'yield' insert 'high'
714	8721	7	for '*turicum*' read '*turcicum*'
714	8721	10	for '*mavdis*' read '*maydis*'
723	8834	12	for '*sachalinesis*' read '*sachalinensis*'
727	8874	2	for '***centrosema***' read '***Centrosema***'
738	9019	22	for '*vesicatioria*' read '*vesicatoria*'
738	9019	29	for '*albo-atum*' read '*albo-atrum*'
738	9019	48,51,59	for '*annum*' read '*annuum*'
739	9031	13	for '*seinosa*' read '*spinosa*'
746	9117	6	for 'Duka's' read 'Duke'
752	9196	1	for '***Marrow***' read '***Cucurbits***'
826	10123	12	for '*Macrosporium*' read '*Alternaria*'

AUTHOR INDEX

A. 700
Aalders, L. E. 2241
Abadzhyan, R. A. 4622
Abakumenko, A. V. 1766, 8543
Abasheva, L. P. 23
Abd-Alla, S. A. 7077
Abd-el-Bary, A. A. 7086, 9803
Abd-el-Ghaffar, M. A. 5225
Abd-el-Hak, T. 6768
Abd-el-Hamid, A. 7991
Abd-El Hamid, A. M. 470
Abd-el-Hamid, A. M. 470, 2058
Abd El-Hamid, A. M. 2058
Abd-el-Hamid, A. M. 8005
Abd-el-Raheem, A. 8005
Abd-el-Salam, A. M. 3750
Abd-el-Salam, M. El-S. 5223
Abd-el-Samie, M. 5770
Abd-el-Tawab, F. 7942
Abd-El'Hamid, A. 7991
Abd-El'Hamid, A. M. 8005
Abd-el'Raheem, A. 8005
Abd-ul-Fattah, M. A.-ul-A. 9259
Abdaliev, Kh. 3592
Abdalla, M. M. F. 422, 2850, 6999
Abdel-Bary, A. A. 7086, 9803
Abdel Fattah, A. 7811
Abdel Ghaffar, M. A. 5225
Abdel-Hak, T. 1042
Abdel Hak, T. 6768
Abdel-Hak, T. M. 5692, 5693
Abdel-Salam, A. M. 3750
Abdel-Salam, A. S. 9259
Abdel-Salam, M. El-S. 5223
Abdel-Samie, M. 5770
Abdel-Tawab, F. 7942
Abdelaziz Abdelfattah, M. 9259
Abdelfattah, M. A. 9259
Abdrakhmanov, S. G. 617
Abdrakhmanova, G. O. 9421
Abdukarimov, D. T. 9778
Abdul Hafiz 4833, 6683, 7765
Abdul Hameed Khan 2390, 5222, 8002
Abdul Majid 1939
Abdul Majid Iqbal 5892, 9653
Abdul Majid Zafar 844, 2390, 4808, 5892, 9379, 9653
Abdul Wadood Bhatty 8002
Abdullaev, A. 8004
Abdullaev, A. A. 1701, 2061
Abdullaev, A. F. 9407
Abdullaev, I. K. 5391, 5411, 6239, 8192
Abdullaev, Kh. A. 7499
Abdullaev, T. 458
Abdullaeva, T. Yu 3181, 8302, 9336
Abdullayev, T. 458
Abdur Rashid 6110
Abdur Razzaque 432
Abdur Rehman Chowdhry 6726
Abdus Salam 9816
Abe, I. 6121
Abedi, H. 5279, 6127
Abel-Moneim, A. M. 4028
Abel, W. E. 7042
Abel, W. O. 2416
Abel. W. O. 7536
Åberg, E. 6785
Abeywardena, V. 583, 5397
Abifarin, A. O. 5088
Abiko, K. 5365
Abilay, W. P. 5091
Abilkhanov, K. 2052
Abinash Yadav 9644
Abington, J. B. 3573
Ablaeva, R. 1272
Abney, T. S. 1604, 7479
Abo El-Zahab, A. A. 8862, 8915
Abo-Hegazi, A. M. 7451
Abou-el-Fittouh, H. A. 4457
Abou Nagi, S. E. 9991
Abou-Zeid, A. 9121
Abramova, L. I. 1630
Abramova, Z. V. 2564, 9431
Abrol, Y. P. 5751, 7748
Abrosaŭ, A. L. 9795
Abu, J. F. 70
Abu-Nil, S. E. 4593
Abu Salih, H. S. 4710
Abutalybov, M. G. 8409
Abzalov, M. F. 455, 1266
Acatrinei, G. 7553
Accatino L., P. 9762
Accatino, P. 2854
Acevedo A., J. 9518
Adair, C. 6077
Adair, C. R. 8792
Adamchuk, G. K. 9307, 9535, 10159
Adami Carletto, G. 5289
Adamkiewicz, E. 5965
Adams, A. J. 3174
Adams, M. W. 4037
Adams, R. 33
Adams, R. P. 708
Adamson, W. C. 1298
Adawi, M. K. 2093
Ademokula, D. O. 4396
Adiba Al-Shahwani Abid 6166
Adojaan, A. 7902
Adrian, J. 4963
Adrichem, M. C. J. Van 3053
Affeltranger, C. E. 697
Afzal, A. 802
Afzal Ilahi 8002
Agadzhanyan, A. M. 3183, 5527
Agadzhanyan, È. A. 5375
Agadzhanyan, E. G. 2530
Agaev, Y. M. 7286
Agaev, Yu. M. 5392
Agafonov, N. P. 1907
Agamalova, S. R. 3349
Ağaoğlu, Y. S. 6285
Agarkova, S. N. 10159
Agarwala, S. C. 802
Ageev, A. N. 1004, 4222
Aggarwal, V. D. 4945
Aghaganian, E. A. 5375
Aghajanian, A. M. 5527
Aghajanyan, A. M. 3183, 5527
Aghajanyan, E. A. 5375
Aghajanyan, E. K. 2530
Agricultural Development and Advisory Service, UK 7585
Agricultural Experiment Station, University of Kentucky 8455
Agricultural Research 6438
Agricultural Research Council of Malawi 7607
Agricultural Research Institute of Ontario 6581
Agricultural Research, USA 570, 753, 4473, 9898
Agricultural Science Review 5466
Agriculture in Northern Ireland 4183
Agrishev, M. Kh. 5760
Agronomie Tropicale 8670
Agudelo L., C. 4931
Aguilar Riega, J. E. 1071
Aguilar, S., H 2882
Ahlgren, C. E. 3946
Ahloowalia, B. S. 2768
Ahluwalia, M. 9646
Ahmad, M. S. 5047
Ahmad, S. T. 4048, 9641
Ahmed, A. G. 664
Ahmed, M. 21
Ahmed, M. K. 2762
Ahmed, S. U. 979, 1297, 9904, 9905
Ahmed Sellami 101
Ahn, S. H. 4553
Ahokas, H. 5683, 6257
Ahuja, K. L. 568, 5220, 9013
Aillaud, G. 8120
Aina, O. J. 794
Ainoya, W. 7692
Aĭrapetov, G. A. 1113
Aitken, J. B. 6198, 6236
Aĭzenshtat, Ya. S. 10160
Aĭzina, M. I. 9847
Akama, Y. 7878
Akashi, T. 704
Akasi, T. 704
Akbar Husain 755, 2347
Akbar, M. 2750
Åkebrand, V. 8257
Akeley, R. V. 439
Åkerberg, E. 912, 1707, 6652, 9360, 9367
Akhade, M. N. 438
Akhmedova, È. G. 1765
Akhtar, S. W. 6071
Akhundova, È. M. 2228, 4592
Akhvlediani, Sh. N. 1410
Akiba, F. 4719, 9256
Akif'ev, A. P. 893, 1672
Akifiev, A. P. 893, 1672
Akihama, T. 9671
Akinola, J. O. 6485, 7518
Akiyama, T. 4386
Aksel, R. 979, 9416
Aksenova, V. A. 4173
Aksenovich, A. V. 1838
Akten, S. 8739
Akyurek, A. 9631
Al-Ani, H. Y. 4264
Al-Delaimy, K. S. 1433
Al-Jasim, H. A. 1433
Al-Rawi, A. 7299
Alad'ev, V. 1885
Aladjev, V. 1885
Alagoda, A. 1167
Alameddine, A. F. 788, 789
Alban, E. K. 9235
Alberghina, O. 3934
Albersheim, P. 3218
Albert, L. S. 754
Al'bert, V. È. 1615
Al'bert, V. Z. 1615
Alberte, R. S. 8503
Albrechsten, R. S. 975
Albregts, E. E. 2240
Albritton, R. C. 8488
Albuquerque, M. de 2911
Alcaraz, C. 7283
Alcaraz Mira, E. 2941
Alconero, R. 5214
Alcorn, J. L. 4684
Aldrick, S. J. 8794
Aldwinckle, H. S. 3009, 7330, 8147
Aleglan, L. K. 9769
Alekperov, U. K. 8409
Aleksakhin, R. M. 5670, 9743
Aleksander, D. È. 9596
Aleksandrov, Yu. A. 9792
Aleksandrova, G. D. 2206
Alekseev, E. B. 1966, 7920
Alekseeva, E. N. 9497
Alekseeva, E. S. 5669
Alekseeva, T. P. 3516
Aleshin, V. M. 598
Alessandrini, L. 4694, 4695, 4697, 6394
Alessandroni, A. 1793
Alexakhin, R. M. 5670
Alexander, A. G. 8943
Alexander, D. E. 232, 2638, 9591, 9596
Alexander, D. M. 9074
Alexander, J. V. 9895
Alexander, L. J. 6403, 8303
Alexander, M. 6964
Alexeev, E. B. 7920
Alexiu, A. 3112, 4620, 5438, 6291
Alfjorden, G. 8254
Alfonzo, M. 9825
Ali, A. 7991
Ali, A. M. M. 470, 2058
Ali, E. M. 5621
Ali Gul 6123
Ali-Khan, S. T. 9306
Ali, M. A. 1360, 2719
Ali, S. I. 1989
Ali-Zade, M. A. 2228
Ali-zade, M. A. 4592, 8580
Aliaskerzade, R. D. 7398
Aliev, R. T. 8580
Aliev, S. 764
Alikhanian, S. I. 6623
Alikhanyan, S. I. 6623
Alikhodzhaeva, S. 6034
Alimzhanova, N. 1018
Alipur, H. 1321
Alipur, Kh. 1321
Älizadä, M. A. 6672
Alka Mishra 6436
Alkämper, J. 2992, 3613
Allah Bakhsh Chaudhry 6894
Allan, R. E. 976, 977, 1810, 4221, 6696, 8595, 9450
Allard, C. 4729
Allard, R. W. 196, 266, 1814, 1815, 2614, 5011, 5012, 8740
Allayarov, M. U. 3976
Allen, D. J. 1301
Allen, E. H. 559, 1371
Allen, G. E. 9321
Allen, J. R. 9583
Alleweldt, G. 1458
Allievi, J. 2137, 7192
Allison, J. R. 1377
Allison, M. J. 4996
Almatov, A. S. 455
Almeida, C. G. 2919
Al'smik, P. I. 2021
Alston, F. A. 8151
Alston, F. H. 6713
Alvarez A., M. 7456
Alvarez, E. I. 5091
Alvarez-Prida Vega, G. 1442, 2244, 3904
Alvey, D. D. 8480
Amano, E. 3339, 3340
Amanov, M. A. 8613
Amanturdyev, B. T. 9818
Amar Singh 173
Amaral, S. F. do 2903, 6078
Amaya, A. A. 1792
Ambler, J. E. 4063, 9294
Amelung, D. 7859
Amen, R. J. 3010
Amer, S. M. 5621
American Potato Journal 7967
Ames, B. N. 1668
Amin, A. Z. 9803
Amir Mohammad 123
Amirbekyan, V. A. 1773
Amirshahi, M. S. 9011
Amler, P. 7693
Ampol Senanarong 4281
Amponsah, J. D. 6144, 8086
Amuti, S. K. 70
An Foras Talúntais 6596, 6603, 6606, 7235
Anadoliev, G. 3935
Anaïs, G. 7612
Anand, I. J. 477
Anan'ina, V. 918
Ananova, Z. M. 1894
Ananyan, A. 775
Ananyan, A. A. 7431
Anashchenko, A. V. 556, 1361, 2979, 7174
Anavaradhan, L. 1968
Ančev, T. 8840
Ancherbak, I. M. 1631, 1635
Ancheva, M. 7197
Ancora, G. 4100
Anđelić, M. 3462
Andérez, M. 7107
Andersen, K. 7862
Andersen, S. 7862
Anderson, A. J. 3218
Anderson, E. R. 4362, 4410
Anderson, L. B. 6949
Anderson, M. K. 1979, 8857
Anderson, M. M. 3058
Anderson, R. N. 2377

Andersson, G. 1486, 5300
Andonovski, A. 3011
Andrada, A. B. 2242
Andrade, A. M. de S. 4038
Andrade, D. de 1608
Andraščík, M. 153
Andrásfalvy, A. 7422
André, P. 671
Andrees, K. 2027
Andreev, A. 769, 3170
Andreev, M. P. 2287
Andreew, A. 769
Andrew, R. H. 8732
Andrew, W. T. 2675
Andrews, C. J. 202
Andria, L. 3997, 4694
Andrianova, K. S. 414
Andrianova, N. F. 5669
Andrushchenko, A. V. 9634
Andryushkyavitsena, I. S. 5854
Anema, P. K. 6789
Aneshansley, D. 5626
Angeles Arrieta, H. H. 4282
Angelov, T. 613, 6209
Angelova, L. 3566
Anghel, I. 4682, 6385, 8290, 8291
Anghelide, N. 3926
Anghelova, L. 3566
Angheluță, L. 5718, 7709
Angulo, M. D. 1997, 2435, 2823
Angus, J. F. 7855
Anikster, Y. 8761
Anioł, A. 4949
Anisimova, G. L. 6000, 9782
Aniția, N. 6124
Anjaneyula, A. 4398
Annenkova, E. A. 9546
Annenkova, Z. M. 1057, 8668
Anokhin, A. S. 9749
Anokhina, V. S. 3715, 5172, 5992, 7954
Anokhina, V. S. 9749
Anotai Chumai 7570
Antcliff, A. J. 10033
Anthonik, A. A. 23
Antipovič, D. 544
Antognozzi, E. 3035, 5380
Anton, D. 6433
Antonellini, E. 3990, 3996, 4695, 4696, 7423, 8300
Antoniana, C. 4050
Antonik, A. A. 23
Antonio, A. A. 5926
Antonov, A. S. 3150
Antonov, I. 7112
Antonov, I. I. 3742
Antonov, Yu. 8279
Antonova, Z. A. 592
Antonovics, J. 379, 2421
Antonyan, A. S. 4622
Antonyan, V. G. 1293
Antonyuk, A. T. 9981
Antunes, E. J. 6249
Antunes, M. J. 2602
Anwar-Ul-Haq 2879
Aoki, M. 2292
Aoki, N. 8162
Apel, P. 3380, 6743, 9630
Apel', V. I. 2576, 4235
Apel' V. I. 4868
Apostol, V. 4051
Appa Rao, K. 2926
Appadurai, R. 3637
Appalanarasiah, P. 1312
Apparao, K. 5271
Appleberry, M. 2057
Aquilar Riega, J. E. 7791
Aquino, R. C. 5040
Aradski, M. 8141
Aragon, E. L. 9667
Arakaki, S. 5581
Arangelov, A. 2217
Araque, R. 3078
Arboleda, A. A. de 9988
Arboleda, F. 9541
Archambault, L. J. 224, 408, 772
Archaniołowicz, B. 2020
Archer, M. J. 160
Arendt, N. K. 9144
Arévalo R., A. 5289
Argus, G. 7358
Arias, E. 9541
Arinshtein, A. N. 9017
Aripdzhanov, Sh. A. 9811
Aristarkhova, M. L. 1619
Arkatova, E. I. 7053
Arkhangel'skaya, V. V. 9180
Armean, E. 6220, 7266
Armstrong, K. C. 7913
Armstrong, W. D. 6227
Arnaud, F. 4518
Arnemo, B. 8853
Arnold, C. E. 3888, 5449
Arnold, M. H. 454
Arnolin, R. 7613
Arnon, I. 3255
Arnoux, M. 8017
Arntzen, C. J. 1098, 4326
Aronovich, S. 9712
Arora, N. D. 409
Arora, O. P. 9333
Arriaga, H. O. 4995
Arrigoni, O. 8405
Arroz, Colombia 2737
Arruda, H. V. 2903, 6078
Arruda, H. V. de 3605
Arthur, A. E. 10156
Arthur Rickwood Experimental Husbandry Farm 6604
Arulrajah, T. 8031
Arun Kumar Sharma 38
Arutyunova, L. G. 7062
Arzani, L. 3568
Arzolla, J. D. P. 1596
Asana, R. D. 1012, 1159, 7734
Asanee Yantasast 5076
Asanuma, S. 7692
Asare-Nyako, A. 6144, 8086
Asay, K. H. 9704, 9706
Aseeva, I. B. 6825
Ashley, T. 1300
Ashman, R. B. 259, 6859
Ashmawy, H. 7329
Ashok Kumar, T. N. 6914
Ashraf, M. 4891
Ashri, A. 3844
Ashworth, F. L. 8240
Asker, S. 5794
Askerov, I. T. 8409
Asociación de Investigación para la Mejora de la Alfalfa 2789
Asomaning, E. J. A. 4504
Assaul, B. D. 5779
Assem, M. A. 3750
Asseva, I. B. 7822
Association of Official Seed Certifying Agencies 6598
Assouad, W. 8369
Astakhov, A. I. 9973
Astashchenko, T. S. 4867
Asthana, A. N. 8009
Aston, D. 3124
Asuwa, N. 3814
Asztalos, G. 7416
Asztalos, Gy. 7416
Atadzhanov, M. A. 7066
Atakuziev, S. 3757
Atallah, M. 5440
Atanasiu, C. 7447
Atanda, O. A. 4502, 8085
Atchison, B. A. 4045
Athow, K. L. 1604, 7479
Athwal, D. S. 5068, 5087, 8790
Athwal, R. S. 2556
Atia, M. H. 5115
Atkin, J. D. 8330, 8335
Atkins, C. A. 41
Atkins, G. J. 1978
Atkinson, T. G. 2607
Atrashenok, N. V. 1858
Attia, M. S. 7426
Atwal, A. S. 4911
Aubakirov, K. A. 8837
Auber, S. 2348
Audiberti, C. 7497
Aufhammer, G. 5859
Augustin, E. 2370, 3221, 4042
Augustine, J. J. 4689, 10101
Augustynek, Z. 3367
Aulakh, H. S. 9452
Aung, L. H. 6029
Auquier, P. 373
Aŭramenka, B. Ĭ. 9440
Austenson, H. M. 2512, 8354
Austin, A. 158, 1034, 3480, 5030
Austin, D. F. 7042
Austin, M. E. 6029
Austin, R. B. 2365, 3146
Autran, J.-C. 7750, 9469
Avagyan, V. A. 6816
Avakian, V. A. 6721, 6816
Avakyan, V. A. 1773, 6721, 6816
Åvall, H. 2295, 8493
Avalos A., F. 1843
Avants, J. K. 1575
Avanzi, S. 882, 3273, 8399
Avanzi, U. 4694
Avarado V., P. 5521
Avarez-García, L. A. 1426
Avarvarei, I. 4974
Avdeev, Yu. 776
Avdeeva, M. M. 4420
Avendaño, R. E. 2796
Avetisova, L. V. 3503
Avetissian, N. A. 4194
Avetisyan, N. A. 4194
Avetisyan, S. V. 7437
Avezdzhanov, R. M. 4399, 8799
Avholm, K. 6785
Avieli, E. 9805
Avila, E. A. 1239
Avila, G. 9548
Avivi, L. 1763
Avramenko, B. I. 8577
Avramescu, A. 6382, 6383
Avrămoaie, P. 6724
Avramov, L. 3086, 3111
Avtar Singh 8876, 8878
Avtonomov, A. A. 1287, 8911
Avtonomov, A. I. 2055
Awad, N. A. 5394
Awadallah, W. H. 1948
Axelsson, F. 1554
Axenova, V. A. 4173
Axtell, J. D. 5156
Aycock, M. K., Jr. 1328, 3817
Ayers, G. S. 2571
Ayers, G. W. 434, 2834, 6360
Ayodyha Prasad 10038
Ayonoadu, U. 8648
Äyräväinen, K. 5137, 7948
Ayres, P. G. 1127
Ayyamperumal, A. 5885
Ayyash, B. J. 1123
Ayyavoo, R. 6167
Azam Gul 976, 977
Azamov Sh. 4453
Azeredo, C. M. A. 6074
Azevêdo, H. 4058
Azimov, A. S. 1113, 9511
Azimova, A. G. 7080
Azizov, B. 1276
Azovtseva, A. P. 5791, 5792, 7776
Azpiazu, A. 3524, 4217
Azundzhanov, N. 9567
Baalawy, H. A. 2119
Baas, J. 9966
Baba, G. H. 329
Babacauh, K. D. 2497, 2498
Babadjanian, K. A. 4213
Babadzhaneva, M. A. 10164
Babadzhanov, F. A. 9818
Babadzhanyan, G. A. 2530, 7701
Babadzhanyan, K. A. 1762, 4213, 4236
Babaev, D. B. 7054
Babaev, D. M. 4452
Babaev, K. Z. 3068
Babaev, O. K. 5964
Babajanian, K. A. 4236
Babajanyan, G. H. 7701
Babajanyan, K. A. 4213
Babajanyan, K. H. 1762, 2530, 4236
Babayants, L. T. 1806, 3520, 9502
Babayev, O. K. 5964
Babbel, G. R. 1814, 1815, 2614
Babeș, S. 3110, 5437, 6294, 7328
Babloyan, B. 775
Babnall, R. H. 2870
Babrikov, D. 660, 10027
Babrikow, D. 10027
Babu, C. N. 490, 3775
Baburina, N. D. 890
Bab'yazh, I. A. 8958, 8961, 9876
Bacha, M. A. 3842
Bachevs'kiĭ, S. O. 8867
Bachitar Singh Ghai 4530
Bachy, A. 8108
Bács, B. 2727
Bacsa, P. 2569
Badea, I. 4393
Bădescu, G. 6216
Badina, G. V. 1217
Bădițescu, M. 3079
Badoux, S. 365, 5127, 6934
Badr, E. A. 4028
Bae, S. H. 5078
Baecke, N. De 5500
Baek, H. K. 3991
Baetcke, K. P. 402
Baets, A. De 8994
Baeva, R. 1786, 7705, 7706
Baeva, R. I. 132
Baeyens, L. 9054
Baggett, J. R. 7414
Baghel, S. S. 4193, 4748
Bagley, W. T. 5455
Bagnara, D. 3402, 3446, 3451, 4210, 5728
Bagrecha, L. R. 821, 8088
Bagryanskaya, N. A. 9573
Bagulho, F. 3396
Baha A. Al-Rawi 6166
Bahavandoss, M. 6038
Bai, K. 3800
Baĭdauletov, O. K. 9435, 9436
Baier, W. H. 5726, 8741
Baijal, S. K. 2138
Baik, H. K. 3991
Bailey, C. 608, 1398
Bailey, C. H. 3002, 7246
Bailey, E. T. 6932
Bailey. W. K. 2991
Bailey, W. K. 2991
Baĭlov, D. 4490
Bains, G. S. 5752
Bains, K. S. 1909, 2585, 4884, 8766
Bains, S. S. 4911
Bajaj, K. L. 6422
Bajaj, Y. P. S. 527
Bajer, A. S. 881
Bajpaye, N. K. 2679
Bajwa, M. S. 2205, 2248, 10025
Bak, K. K. 7879
Bak, K. Y. 3751, 4053
Bak, S. H. 5109
Bakaĭ, S. 968
Baker, C. J. 5776
Baker, E. C. 6373
Baker, E. P. 6779
Baker, H. G. 6532
Baker, L. R. 745, 4689, 4691, 10101
Bakhareva, S. N. 60
Bakhramov, A. 9804
Bakhramov, K. B. 1701, 8920
Bakhshi, J. C. 5399
Bakhteev, F. K. 9317
Bąkowski, J. 2315, 2357, 6437
Bakshi, J. S. 8733
Bakumenko, N. I. 3500
Bala Kotaiah, K. 1261
Balabas, G. M. 7206
Balakhonova, F. G. 10020
Balakrishna Rao, K. 5112
Balakrishna Rao, M. J. 327, 1148
Bălan, C. 4051, 7956
Balan, J. S. 5307
Balarami Reddy, B. 288
Bălașa, M. 2329
Balasanian, D. S. 4662, 9337
Balasanyan, D. S. 4662, 9337

Balashova, R. I. 8010
Balasubrahmanyam, V. R. 7318
Balasundaram, V. R. 6466
Balatková, V. 5295
Balboa, F. C. 7469
Baldi, G. 3668, 6928, 8788, 9275
Baldini, E. 3014, 6229, 6230, 6231
Baldridge, D. E. 3457
Bálint, A. 9318
Baljeet Kaur 4911
Balkema, G. H. 1669
Balkov, I. Ya. 5246, 8038, 8046, 8957, 8960
Balkow, I. 8038
Balla, L. 4192, 5709, 7677
Ballantyne, B. 843, 4046, 4731
Ballard, J. 4559
Ballinger, W. E. 4627, 7297
Balmer, E. 6041
Baltaga, S. V. 2259
Bammi, R. K. 6107
Ban, C. D. 3751
Banasik, O. J. 8754, 9621
Banba, K. 5257
Bancher, E. 423
Banchero, C. B. 5157
Bancilhon, L. 8410
Bandari, N. N. 5269
Bandel, G. 2434
Bander, V. A. 10058
Bandze, E. 9227
Banerjee, S. 5754
Banerjee, S. K. 4352
Banerjee, U. C. 6815
Banerji, B. 6927
Bång, H. 3740
Baniță, P. 3079, 3097, 8207
Baniță, P. M. 3913, 6653
Bańkowska, H. 8329
Banks, W. 275
Bannerot, H. E. 1538
Bannikova, V. A. 6941
Bannikova, V. P. 4492
Bannikova, V. P. 4492
Bannon, J. J. 2171
Bansal, H. C. 3447, 3619, 4272, 7200, 9023
Banttari, E. E. 3616
Banu, M. 7806
Banville, G. J. 645
Bányai, L. 1131, 7868
Banzatto, N. V. 1912
Bapat, S. R. 9676
Barabás, Z. 914
Barakat, M. A. 5114, 5115, 5226
Baraldi, G. 1395
Barannikova, Z. D. 5684
Baranov, N. I. 790
Baranowski, A. 488
Baranyi, I. 1254, 1370
Barash, S. I. 966
Barashkova, È. A. 4248, 9497, 9745
Baratta, B. 3843
Barbados Sugar Cane Variety Testing Station 6068
Bărbulescu, A. 4375
Bărbulescu-Leșe, T. 6409
Bărbulescu-Leșe, T. 8117, 9242
Bărbulescu, T. 6383
Barcellos, A. L. 2601, 6777
Barclay, P. C. 2818, 4422, 6946, 6947, 6948
Bard, S. R. 6818
Bardier, N. G. 5175, 8879
Bárdy, A. 1871
Bareš, I. 963, 5781, 7732, 9498
Barghoorn, E. S. 6815
Bari, G. 2551
Barker, A. V. 10088
Barker, R. E. 8826
Barksdale, T. H. 1582
Barlow, P. W. 4770, 6821
Barman, B. D. 3241
Barna, B. 1739, 7033
Barna, J. 7326, 8220
Barna, N. N. 7342
Barnard, C. 6938
Barnard, J. 8675
Barner, H. 1480
Barnes, B. V. 1506
Barnes, C. E. 387
Barnes, D. K. 5150, 5151, 9724, 9725
Barnes, F. J. 1577
Barnes, G. L. 5508
Barnes, R. F. 2652, 9708
Barnes, W. C. 4690
Barnett, F. L. 2724
Barnett, R. D. 204, 8561
Barnier B., R. 2633, 8676
Barocka, K. H. 503
Baroncelli, S. 5526
Barradas, M. das T. 3396
Barradas, M. T. 3394
Barrai, I. 1679
Barrales V., L. 8676
Barrault, J. 7904
Barreiro, M. 8283
Barreto, A. 3222
Barrett, J. 7849
Barrientos, F. 2243, 3036
Barriga B., P. 8659
Barriga Bezanilla, G. P. 8678
Barriga S., C. 1603
Barrios G., A. 8325
Barritt, B. H. 2246, 3061, 8199, 10011
Barrow, N. J. 2820
Barseghyan, V. S. 2108
Barsegyan, V. S. 2108
Barsukov, A. D. 213
Barszczak, Z. 4324, 7814, 7820
Bartaria, A. M. 499
Barthakur, B. C. 3241
Bartolucci, A. 3820
Bartoš, P. 5781
Bartsch, H. 1668
Bartz, J. A. 4016, 4527
Barua, B. L. 442
Basak, S. L. 6061, 8938
Bashaw, E. C. 9710
Basher, M. A. 2232
Bashir Ahmad 1925, 7876, 7894
Baskaluvaïte, A. M. 3283
Basoccu, L. 1450
Basova, A. I. 10012
Bassett, I. J. 9738
Bassett, M. J. 4658
Bassiri, A. 2813
Basso, F. 3723, 7001
Basso, M. 8155, 9168
Bastdorff, R. S. 7419
Bastida Pérez, J. R. 5571
Bastien, D. 105, 106, 826, 2373
Bastin, R. 9273
Bastos Cruz, B. P. 3906, 9165
Basu, A. K. 1138
Basu, N. C. 485
Basurmanova, A. I. 6738
Batikian, H. G. 4662
Batikyan, G. G. 4662
Batikyan, H. G. 4662
Batinica, J. 4067, 8171
Batra, R. C. 2223
Batsanov, N. S. 2009
Batygin, N. F. 2696
Bätz, G. 6649
Bauch, G. 3390
Baudewyn, J. 9054
Bauer, A. 1797
Bauer, L. I. de 2597
Bauerle, W. 757
Bauerle, W. L. 770, 1573, 1574, 10113, 10114, 10115, 10116
Baula, P. L. 8333
Baum, B. R. 192, 193, 1820, 2615, 4917, 5143, 9348
Bauman, L. F. 219, 2652, 7794
Baumane, G. 2208
Baumer, M. 264
Bavappa, K. V. A. 9145
Bavyko, N. F. 1236
Bawa, K. S. 681
Bawolska, M. 7134
Bayer, M. H. 1331, 8988
Bayliss, M. W. 4861, 5740
Baynes, R. A. 6811
Bayraktar, A. 5007
Baytop, T. 9897
Bayubay, S. J. 8976
Bazavluk, I. M. 10148
Bazgan, C. 8160
Bazzocchi, R. 6231
Bałabas, G. U. 7206
Beachell, H. M. 5040, 5063, 5071, 5080, 5093
Beal, P. R. 774, 3907
Beale, P. E. 5163
Beall, L. B. 3223
Bean, E. W. 360, 1178
Beard, D. F. 9720, 9721, 9722
Beard, J. B. 9686
Bebić, D. 3889
Bebyakin, V. M. 2509, 8646
Beceriescu, D. 4823
Becherelli, A. 3820
Becker, H. 5430
Becker, K. H. 8264
Becker, M. 6313
Becker, V. 5336
Beckman, C. H. 1581, 3193, 4714, 4715
Bédard, R. 10013
Beddows, A. R. 8822
Bedford, C. L. 3737, 4440
Bedi, P. S. 5018, 5774
Bedov, S. 4511
Begga, A. K. 7734
Beglaryan, A. S. 4906
Beil, C. E. 2786
Beiss. U. 8047
Bejan, V. 2329
Békési, P. 7661
Békésy, M. 4751
Bekhter, A. G. 1368
Bekov, R. Kh. 10112
Bekseev, Sh. G. 2337
Belan, V. S. 3349, 9250
Bélanger, J. M. 506
Belayeva, R. G. 2399
Beldie, A. 9697
Belea, A. 4912, 6759
Belej, J. 7818
Beletskiĭ, Yu. D. 1363
Beletzky, Yu. D. 1363
Belia, B. 7809
Belić, B. 8345
Belić, M. V. 8174
Belichenko, N. I. 9455
Belik, T. 8279
Belik, V. 6380
Beljaeva, E. V. 8719
Bell, A. R. 2691, 4998
Bellini, E. 1372
Bellmann, K. 9326
Bellu, O. 6294
Belonogov, E. V. 1994
Belopol'skaya, L. S. 511
Belousov, A. A. 3550, 3552
Belousova, N. I. 8682
Belova, L. I. 4076
Bel'skiĭ, A. I. 9983
Belyaev, D. K. 6623
Belyaeva, E. S. 7783
Belyaeva, E. V. 8719
Belyaeva, N. D. 4190
Belyaeva, R. G. 1642, 2399, 8366
Belyaeva, T. G. 2998
Belyakov, I. I. 9493
Bemis, W. P. 4686
Bempong, M. A. 1674, 3203
Benabderrabou, A. 4619
Benada, J. 9635
Benbasat, E. 4090
Benbassat, E. 4090
Benc, S. 7852
Benedekné Lázár, M. 7438
Benedict, C. R. 461, 563, 1278
Benedict, W. G. 1583, 2345
Benedik, J. 8381
Bengtsson, A. 836
Beni, U. de 8492
Benincasa, G. 7144
Bennekom, J. L. van 3147, 4663, 4664, 10079
Bennett, D. 2443
Bennett, G. A. 8726
Bennett, H. W. 2776, 8825
Bennett, M. D. 2506
Bennett, M. D. 2575
Bennett, M. D. 2699, 6668, 6875, 7119, 7452
Bennici, A. 3969
Benoist, C. 4790
Beohar, A. B. L. 1641, 4418, 8365
Beohar, D. C. 5712
Beraha, L. 2304
Beránek, F. 544, 545, 6146, 7158
Berard, D. F. 5565
Beratto M., E. 9518
Berbeć, E. 8263
Berbeć, J. 5270
Berdahl, J. D. 5007
Beres, V. 669
Berestneva, T. V. 3599
Berestova, G. N. 2998
Berezhko, S. T. 8951, 8954
Berezkin, A. N. 5743
Bereznyakovskaya, A. V. 3756
Berg, C. C. 9703
Berg, L. van den 718
Berg, M. A. 3457
Bergamini, A. 7244, 9057
Berger, R. D. 2676, 4658, 10093
Bergh, B. O. 10000
Bergman, J. W. 8554
Bergmann, H. 2708
Bergquist, R. R. 9662, 9665
Bergstrand, K. 4313
Berishvili, T. T. 9492
Bernard, R. 8503
Bernatskaya, M. L. 6472
Bernatzkaya, M. L. 6472
Bernhard, M. R. 9132
Bernhard, R. 9131
Bernier, C. C. 5777
Berninger, E. 1730
Berova, S. 1786, 7706
Berrang, B. 9734
Berrier 1013
Berrier, R. 7750, 9476
Berry, C. D. 1967
Berry, S. Z. 1580, 2339, 7425
Berthelem, P. 1730
Bertin, C. 1065
Berville, A. 931
Berwick, J. 5263, 8051
Beš, A. 4067
Bessarab, K. S. 6700
Bester, C. W. J. 6263, 6265
Betancourt, L. 5510, 6354
Betlach, J. 6118, 7201, 8312
Bettencourt, A. J. 1346
Bettiol, A. I. 4200
Bëttkher, F. 4003
Bettucci, L. 3521
Bey, C. F. 6299
Beyer, E. M., Jr. 3169
Bezanilla, G. P. B. 8678
Bezbaruah, H. P. 2120, 2955
Bezděk, V. 9629
Bezhanidze, O. I. 5585
Beznosenko, G. A. 7831
Bhabanti Mohanti 5823
Bhag Mal 200, 838, 6783
Bhagat, N. R. 8286
Bhalla, P. L. 7477
Bhalla, P. R. 3280
Bhalla, R. B. 7773
Bhan, A. K. 4352
Bhandari, K. 136
Bhandari, M. M. 136
Bhandari, N. N. 2927
Bhapkar, D. G. 2754
Bharathi, V. S. 1840
Bhardwaj, B. D. 216, 6802
Bhardwaj, S. N. 840, 7997
Bhargava, B. D. 9643
Bhargava, L. P. 1135
Bhargava, P. D. 412
Bhargava, R. N. 1593, 8342
Bhargava, S. C. 5897
Bhaskara Rao, C. 1158
Bhaskaran, R. 9823
Bhat, N. R. 8032
Bhat, N. T. 2269
Bhatia, C. R. 209, 3477

Bhatia, I. S. 568, 5220, 5838, 6422
Bhatnagar, C. P. 4723
Bhatnagar, P. S. 2907
Bhatnagar, S. M. 9643
Bhatnagar, V. K. 9643
Bhatt, B. 9025
Bhatt, B. N. 6436, 9272
Bhatt, G. M. 6676, 8556, 9403
Bhatt, J. G. 1285, 4456, 5221
Bhattacharyya, R. K. 1163
Bhide, V. P. 2069
Bhojwani, S. S. 1725
Bhola, A. L. 5306
Bhole, G. R. 8361
Bhowal, J. G. 2590, 7729
Bhujbal, B. G. 1462
Biaiñ, M. M. 5831
Biali, M. 205
Bianchi, A. 5662, 5921, 8394
Bianchi, A. A. 230
Bianchini, P. R. 2026
Bianchini, R. 2861
Bianu-Morea, M. 4871, 5231, 6054
Bible, B. B. 10120
Bick, M. D. 6513
Bidault, M. 8824
Biddle, A. J. 10170
Bieber, D. 4949
Bielenin, A. 7303
Bieluga, B. 2028
Bienz, D. R. 4675
Bierhuizen, J. F. 3825
Bieri, W. G. 3372, 3571
Bigornia, A. E. 638
Bigotti, P. G. 9019
Bijok, K. 1203, 4421, 5965
Bilbro, J. D. 9820
Bilgen, T. 2907
Billeter, B. A. 2304
Bin, F. 9245
Binding, H. 2439
Bindra, A. S. 9131, 9132
Binek, A. 5161, 10074
Bingefors, S. 2812, 6642, 7933, 8348, 8853
Bingham, E. T. 1986, 9726
Bingham, J. 148, 1002, 7667
Bini, G. 1372
Biologische Bundesanstalt für Land- und Forstwirtschaft in Berlin und Braunschweig 6539
Birchfield, W. 8905
Bird, A. F. 8323
Bird, L. S. 7077, 9806
Bîrnaure, V. 4459, 7002
Birnbaum, A. 5609
Biró, F. 6849
Biró F.-né 6849
Birot, Y. 7366
Bîrsan, N. 7956
Birt, D. V. 1522
Bishop, A. 7215
Bishr, M. A. 9803
Bisht, S. S. 802
Biskupski, A. 3408, 3553, 4881, 5803
Bisley, D. S. 456
Biswas, A. K. 8111
Bitzer, J. M. 9406
Bitzer, M. J. 83, 2491, 2723, 7671
Biuletyn Instytutu Hodowli i Aklimatyzacji Roślin 8502
Biutisuva, F. 5263
Biyashev, G. Z. 9338
Bjarnason, M. 4966
Björkman, E. 4634
Björkman, O. 4720
Bjurman, B. 7298
Blackman, G. E. 6831
Blaha, J. 621
Blakely, J. A. 1547
Blanchard, R. O. 2661
Blanco, M. H. 6850
Blažek, J. 1401
Blazquez, C. H. 5333
Blixt, S. 4077
Blondon, F. 1194
Bloom, J. R. 7444
Blotskaya, Zh. V. 9795
Blum, A. 6908, 6986, 8779
Blumenfeld, A. 7482
Blyandur, O. V. 5822, 7821
Blyudenov, M. A. 6701
Boado, J. R. 9661
Boamah-Mensah, E. 6246, 9999
Board of Grain Commissioners for Canada 5688
Bobariko, L. I. 7253, 8198
Bobek, J. 6159
Boberski, K. 3553
Boberskiĭ, I. A. 9183, 9377
Bobodjanov, V. A. 1629
Bobodzhanov, V. A. 1629, 7499, 10154
Bobrov, E. G. 1530, 2271, 7654, 10055
Bobrow, E. G. 7654
Bocharnikova, N. M. 2998
Bochev, B. 3523, 6708
Bock, K. R. 9283
Bock, W. J. 1680
Bockholt, A. J. 7828, 9610
Bockstaele, E. Van 8641
Bócsa, I. 8018
Boczek, J. 7772
Boden, J. 208
Bodi, I. 7263, 8160
Bodini, A. 3997, 4694
Bodisco, V. 1919
Bodrov, M. S. 8566
Boelema, B. H. 4745
Boerma, H. R. 9284
Boev, V. 4196
Bogaerts, C. W. van den 5052, 5911
Bogdan, G. P. 1804, 8357
Bogdan, M. 9952
Bogdanova, L. V. 7978
Bogdanova, T. L. 9954
Bogdanowicz, M. 4882, 4885, 5764
Boggiatto, A. J. 2242, 6266
Boggini, G. 8292
Bogomolov, A. J. 2695
Bogomolov, A. M. 4921, 8658, 9619
Bogomolova, M. T. 9619
Bogomyagkov, S. T. 8617
Boguleanu, G. 7513
Boháč, J. 3392, 5551
Bohm, L. R. 2786
Bohn, G. W. 4681, 7410
Boĭchev, A. 665, 8208
Boidron, J. N. 7327
Boĭkov, A. 4794
Boĭkova, E. 426
Boĭtsov, I. I. 10168
Boixière, R. 8622
Bojadzhieva, D. 1761
Bojarczuk, J. 1798, 3389, 3554, 3600, 7819, 8322
Bojarczuk, M. 3554, 3600, 8322
Bojinova-Boneva, I. 4617, 6275
Bokány, A. 2727
Bokareva, L. I. 7966
Boldea, E. 4887
Bole, J. B. 6735
Bolelova, Z. A. 8955, 9867
Boletim do Departamento Economico do Instituto Brasileiro do Café 3827
Bollich, C. N. 5038
Bolling, H. 3482
Bolsunov, I. 521
Bolsunov, I. I. 8974
Bolsunovskaya, O. V. 969
Bolton, A. T. 765
Bolton, J. L. 909
Boltovskiĭ, A. I. 10131
Bomjanski, T. 8840
Bommegowda, A. 9582
Bondarenko, L. V. 2985
Bondarenko, V. P. 2025
Boneta Garcia, E. G. 8077
Bonhoeffer, F. 874
Bonner, F. T. 679
Bonnet, A. 725
Bontea, V. 6233
Boos, G. V. 711, 3357, 3955, 3957, 8260
Boosalis, M. G. 3647
Booth, S. A. 8858
Booth, T. C. 696
Boothroyd, C. W. 8373
Boratyńska, W. 2178
Borbély, F. 1220
Borbély, I. 1220
Borcescu, A. 2229
Bordonos, M. G. 9879
Borecka, H. 7303
Borejko, T. 7014
Borges F., O. 1453
Borges F., O. L. 1451, 1452, 1453, 1454, 7306
Borghi, B. 746, 8292, 8394, 9229
Borisenko, I. G. 9058
Borisenko, V. A. 6342
Borisov, G. N. 7059
Borisovs'kiĭ, M. Ya. 10044
Borisovskiĭ, N. Ya. 10045
Borka, G. 4585
Borka, Gy. 4585
Borka, K. 4585
Borkowski, J. 8311
Borlaug, N. E. 122, 5083, 8572
Bormotov, V. E. 8043, 8948
Borner, H.-G. 5430
Börner, T. 2423
Borodavkina, T. 4687
Borodina, N. A. 9189
Borodkin, A. S. 481
Borodkin, I. S. 2790
Borojević, K. 7720
Borojević, S. 3420, 3462, 3484, 4825, 4827
Borovskiĭ, M. I. 1848, 8683
Borrill, M. 1185
Borşan, I. 8400
Borsos, O. Sz.- 5174, 6991
Bortner, C. E. 8993
Borys, M. W. 1579, 4011
Bos, L. 2352
Boschi, V. 5697, 8672
Bosco, G. F. del 5377, 7277
Bose, M. S. 5528
Bose, S. 324, 1568, 1781, 3180, 3286, 5528, 7882, 9838
Bosemark, N. O. 4478
Bosi, A. 4563, 6230
Bošković, M. 3508, 3512
Boškovski, S. 518
Bosque Lugo, R. 8077
Botár, A. 8193
Botez, C. 6820, 7808
Botez, M. 8195
Botezan, V. 4887, 6697
Botnarenko, P. M. 9930
Böttcher, F. 4003
Boubarova, M. 4090
Boukema, I. W. 2328
Boulter, D. 45, 4115, 8509
Bourdet, A. 6703, 7750, 9476
Bourgin, J.-P. 3262
Bourque, D. P. 3809
Bouter, H. 7009
Boutin, J.-P. 7940
Bouw, W. J. 4152
Bouwkamp, J. C. 2042
Bouwman, L. A. 2035
Bowden, D. M. 6828
Bowers, J. L. 5567, 6391, 10085
Bowler, D. J. 1033
Boxall, M. 5538
Boyadjieva, D. 3479
Boyadzhieva, D. 1761, 3479
Boyd, A. E. W. 5210
Boyle, J. S. 6023
Boynton, D. 3008
Bozhinova-Boneva, I. 4617, 6275
Bozhinova, I. 5425, 5428
Bozhinova, L. 5425
Bozhko, I. A. 99
Bozzini, A. 1782, 4708, 4857
Braak, J. P. 7554
Brabant, S. 827
Brack, C. E. 2266
Brad, I. 5158
Bradley, G. A. 6373
Bradshaw, A. D. 367, 2458
Bradt, O. A. 4147, 4148, 4156, 7311
Bradu, V. Ya. 7281
Brady, T. 30
Braĭnin, V. M. 1493
Braĭon, A. P. 9954
Branas, J. 7322
Branchard, M. 8065
Brandão, S. S. 3802
Brandolini, A. 9548
Brandsch, C. 7558
Brandsch, R. 7558
Brandt, K. 1482
Braniște, N. 4569
Branžovský, I. 4341
Brar, J. S. 5489, 6348
Brasher, E. P. 1563
Brasier, C. M. 3745, 6319, 8249
Bratu, I. 4051
Brauer, O. 3036
Bravdo, B. 3925
Braverman, S. W. 52, 1956, 2760
Bravo, P. 7192
Brawn, R. I. 6811
Bray, D. F. 2561
Bray, R. A. 6448
Bredemeyer, G. M. M. 3361
Breese, E. L. 48, 871, 8823
Breider, H. 3108, 3920
Brej, S. 907, 1016
Brej. S. 3582
Brej, S. 4243, 5757
Brenière, J. 8776
Bretan, C. 7000
Brett, P. G. C. 7105
Breuils, L. 671, 10051
Brewbaker, J. L. 2670, 4939, 8252, 8505
Brezhnev, D. 62, 1576
Brezhnev, D. D. 56, 62, 4162, 5603, 5657, 7619, 8260, 8305, 9395, 10077
Breznovits, A. S. 7139
Brian, P. W. 1735, 7226
Bridge, R. R. 1267, 6033, 9815
Bridle, P. 6320
Briedis, A. V. 1577
Briganti Giannoni, G. 3701
Briggs, K. G. 2527
Brigham, R. D. 9286
Brightwell, W. T. 644
Brim, C. A. 1607, 5576, 9291
Bringhurst, R. S. 2243, 3063, 7302
Brink, R. A. 1839
British Columbia Department of Agriculture 2479
Brittain, W. H. 7657
Britto, D. P. P. de S. 7465
Broadbent, P. 8185
Broadhead, D. M. 3638
Brochier, J. 7611
Brock, J. L. 5978
Brock, R. D. 4793
Brock, W. A. 7627
Brockwell, J. 3709, 5160
Brodowska, A. 1222, 8322
Broembsen, S. L. von 479
Broembsen, S. von 4460
Broertjes, C. 4766
Broertjes, G. M. M. 7440
Broksh, V. L. 9770, 9771
Brolmann, J. B. 8871
Bromfield, K. R. 2991
Bronckers, F. 805, 8269
Brönnimann, A. 1040, 3372, 3511, 4253, 6664
Brooker, M. I. H. 2275
Brooks, O. L. 9406
Brooks, R. M. 4538
Brooks, S. N. 1352, 2972
Browder, L. E. 3514, 9510, 9514
Brown, A. H. D. 8037
Brown, A. R. 2595, 8753
Brown, C. M. 1818
Brown, C. W. 195

Brown, G. K. 8189
Brown, G. R. 6258
Brown, J. C. 4063, 9294, 9581
Brown, J. F. 740, 2098, 9927
Brown, J. H. 2703, 4582, 5013, 5862
Brown, K. J. 7075
Brown, L. C. 5490
Brown, P. L. 4889
Brown, R. H. 45, 4115
Brown, R. T. 3174
Brown, S. J. 8406
Brown, W. L. 1058
Brown, W. V. 2759, 6942, 8810
Brücher, H. 7011
Bruchlos, P. 2301
Brückner, K. 6491
Bruening, M. L. 1204
Brun, W. A. 1613
Brune, W. 1385, 3189
Brunelli, B. 4717
Bruni, B. 9176
Bruni, O. 4982, 8105
Brunori, A. 3137, 4100
Brunton, C. J. 1749
Bruter, D. P. 5544, 6446, 9281
Bryant, W. G. 3709
Brykczyński, J. 3537
Brykin, A. I. 2993
Bubán, T. 4584
Bubarova, M. 3162, 4090, 6347, 8368, 8370
Buchannon, K. W. 282
Buck, G. 3055, 4601
Bucknall, S. A. 3124
Buckner, R. C. 1183, 2773, 3684, 8817
Bucurenciu, V. 5833
Buczacki, S. T. 7394
Budanov, V. E. 3518
Budanova, V. I. 1587, 1590, 1594, 4041
Budashkina, E. B. 3433
Buddenhagen, I. W. 5060, 8794
Bude, A. 5875, 6881, 7851, 7858
Budin, K. Z. 57, 59, 2023, 5673, 9770, 9783
Budnitskaya, E. V. 3349
Budoi, G. 4305
Budoi, I. 4305
Budyak, V. T. 7912
Budykina, N. P. 1244
Bueno Perez, M. de los A. 4029
Bugakov, A. M. 3354
Bugayong, R. G. 3045
Bugbee, W. M. 8965, 9887
Bühring, J. 7788
Buiatti, M. 3969, 4494, 5526
Buican, D. 1094
Buĭdin, V. V. 9727
Buijtenen, J. P. van 675
Buĭmistru, V. E. 2264
Buitrago G., L. A. 831, 2375
Bujdosó, G. 7446
Bukai, J. 7975
Bukasov, S. 8901
Bukasov, S. M. 446, 7022
Buker, R. J. 8480
Bukhanova, M. A. 9435
Bukhar, I. E. 5828
Bukhteeva, A. V. 9685
Bukovac, M. J. 3867, 4688, 7482
Bula, R. J. 9719
Bulakh, P. P. 1619, 1623
Bulanova, L. 1555
Bulatović, S. 7250
Bulgakov, S. V. 8366
Bulin, N. D. 9877
Bulin, V. N. 9877
Bulit, J. 9998
Bullen, M. R. 199
Buller, R. E. 9712
Bulletin CETIOM 7163
Bulletin de l'OIV 1985
Bulletin de l'OIV 3082
Bulletin d'Information Coresta 8968
Bulletin, Ministry of Agriculture, Fisheries and Food, UK 2187
Bulletin, Southern Cooperatives 4166
Bulmer, M. G. 879
Bülow, J. F. W. von 2634, 2671, 2909
Bulygina, L. I. 6968
Bundesanstalt für Pflanzenbau und Samenprüfung in Wien 3300
Bundesanstalt für Qualitätsforschung pflanzlicher Erzeugnisse 901
Bunescu, D. 7447
Bunting, E. S. 3587, 7668
Buravkova, L. K. 1083
Burba, M. 6102
Burdekin, D. A. 3123, 3131
Burdenyuk, L. A. 3495
Burdine, H. W. 6376
Burdonov, E. I. 8504
Bureau des Vins et Alcools, Ministère de l'Agriculture, Morocco 3083
Bureau of Sugar Experiment Stations, Brisbane 6067
Buren, L. L. 245
Burenin, V. I. 7111
Burfitt, J. M. 4266
Burges, N. A. 9315
Burgess, R. A. 2902
Burgis, D. S. 2343, 5535
Burgos, J. J. 964
Burić, D. 3929, 8218, 8223
Buriticá, P. 7034
Burk, L. G. 1338, 3810, 3811, 6116, 8969
Burley, J. 4640
Burlica, L. 9113
Burloi, G. 7699
Burlov, V. V. 2139, 4513, 5314, 7173
Burmood, D. T. 9297
Burnham C. R. 1854
Burns, J. A. 2110, 2929, 9889
Burns, J. C. 9752
Burns, R. E. 5903, 8775
Burnside, K. R. 3065
Burnside, O. C. 5905
Burpee, L. L. 7444
Burrows, P. M. 4640
Burrows, V. D. 202, 3529, 5793
Burrus, P. B. 1183
Burrus, P. B., II 2773, 8817
Burson, B. L. 2776, 8825
Burtea, O. 6220
Burton, G. W. 1134, 1959, 2728, 8479, 8765, 9648
Busch, R. H. 980, 1792, 8551, 8563, 9401, 9472
Busey, P. 8769
Bush, H. L. 3358
Bush, L. P. 2773, 8817
Bushuk, V. 996
Bushuk, W. 1019, 1020, 3207, 3440, 4886, 9477
Busso de Banchero, G. M. R. 5157
Buta, A. 6027
Butănescu, G. 3097
Butany, W. T. 1261
Butenko, R. G. 1332, 1333
Butkova, V. Ya. 7050
Butkus, V. 3908
Butkus, V. F. 1456
Butler, G. W. 369
Butler, J. I. C. 8490
Butnaru, G. 5809
Butterfass, T. 3272, 3786
Buttery, B. R. 10149
Buttrose, M. S. 5433
Butuc, I. 6124
Buyauskas, A. 7986
Buyauskas, A. V. 4450
Buyukli, P. I. 5544
Buzanov, I. F. 9872
Buzanov, N. I. 9869
Buzoianu, V. 6653
Buzzell, R. I. 10149
Bychenkova, A. 2863
Bychko, Ya. A. 9860
Bychkov, A. N. 9560
Byczyńska, B. 9908
Byers, R. E. 624
Byhan, O. 2954
Byrd, W. P. 8750
Byrka, S. G. 5825, 7807, 7821
Byrne, I. 4343
Bystydzieński, W. 1443, 2237
Byszewski, W. 2092
Byth, D. E. 5545, 6448, 6458, 8983
Byther, R. S. 496
Błaszczak, W. 3739, 6024
Błotnicka, K. 5492
Cabangbang, R. P. 4366
Cabral, A. 1274
Căbulea, I. 1869
Cabulea, I. 1869
Căbulea, I. 4940, 8679
Cada, E. C. 1926, 1930, 5049, 6922
Caenen, M. 4944
Cafati K., C. 7456
Cafati K., C. R. 2367
Café Cacao Thé 4500
Caffera, R. 1003
Cagampang, G. B. 2653, 5925
Cagaš, B. 9689
Cahanap, A. C. 7044
Cahiers d'Agriculture Pratique des Pays Chauds 1698
Cahoon, G. A. 667, 5434, 6289
Caia, R. 3849
Cain, R. L. 4756
Cajal, J. A. 2154, 2155, 2156, 5570, 5580, 6153
Cal, J. P. 1097, 3583
Calati, D. 4307
Calder, D. M. 1955
Calder, F. W. 2806
Calderón, C. E. 9713
Calderón Pérez, G. 8631
Caldwell, B. E. 4739
Caldwell, L. M. 6227
Caldwell, W. D. 5224
Calistru, G. 3074, 3914, 10029
Caliwag, C. M. 2163
Calnaido, D. 5282
Calò, A. 2256, 2257, 2258, 7316, 7324
Calot, L. 6445
Calotă, M. 4620
Calvert, A. 786
Calvert, O. H. 1879, 1881
Calvo, J. A. 1037, 4983
Camacho Bustos, S. 3896
Camacho M., L. H. 2375, 4736
Camargo, A. H. de 5395
Camargo, L. de S. 3906, 9165
Cambra, M. 2191
Cambraia, J. 1385, 3189
Cameron, D. G. 5146
Cameron, J. W. 2226, 3040
Camlin, M. S. 370, 7915
Campbell, A. R. 198, 1046, 1819
Campbell, C. W. 5416
Campbell, L. G. 3640, 7684
Campbell, R. K. 5481
Campbell, R. L. 1526
Campbell, W. M. 4335
Campeau, M. A. 837
Camper, H. M., Jr. 9605
Canadian Journal of Plant Science 8735
Čanak, M. 8345
Cañas Prieto, G. 6397
Candela, R. 3084
Candia Z., J. D. 4280
Canevascini, V. 3080
Cannings, C. 2422
Cannon, O. S. 795
Cantliffe, D. J. 7419, 10089
Capetti, E. 4898, 6774
Capot, J. 2956, 6133
Cappelleri, G. 7317
Cappellini, P. 9099
Caputa, J. 365
Caramete, C. 6839
Carañgal, V. R. 4279
Carapetian, J. 9012
Carasso, F. M. 2680, 2684
Carballo Caabeiro, J. 981
Carbonetti, R. 2233
Card, L. C. 3239, 6467
Cardoso, A. A. 1608, 3216, 3235
Carl, C. M., Jr. 2280
Carleton, A. E. 2001, 4417, 4997, 5131, 8865
Carletti, G. 7117
Carletto, G. M. 2965
Carlson, E. A. 6518
Carlson, G. E. 9729
Carlson, O. V. 447
Carlson, P. S. 525, 889, 2106, 2925, 3271
Carlson, R. F. 619
Carlson, W. R. 8692
Carmichael, J. W. 2777, 2779
Carmichael, N. M. 9895
Carnahan, H. L. 5079, 5085
Carnegie, A. J. M. 5244
Carnegie, P. R. 159
Carneiro, A. M. 8767
Carpena, O. 7283
Carpenter, G. T. 606
Carpenter, J. A. 8861
Cărpinișan, T. 3505
Carr, D. J. 2453
Carr, M. K. V. 1341
Carr, S. 1341
Carrano, A. V. 5620
Carrante, V. 7179, 7180
Carranza, J. M. 9537
Carrison, C. S. 5137
Carroll, D. L. 8753
Cartechini, A. 627
Carter, G. A. 3829
Carter, G. H. 5440
Carter, H. B. 791, 1622, 7378
Carter, J. F. 957
Carter, M. W. 9579
Carter, O. G. 166
Carter, S. B. 883
Cartia, G. 4015
Caruso, P. 3954, 3981
Carvalho, A. 3828, 7153, 8078, 8080
Carvalho, B. C. L. de 4721
Carvalho, J. V. 1927
Carvalho, M. G. de 2122
Carvalho, M. M. de 8763
Carvalho, P. P. 2873, 2874, 2877, 5215, 9800
Carvalho, S. R. de 8767, 9717
Carvalho, T. de 417
Carver, R. B. 3065
Casady, A. J. 2724, 3640, 3642, 3646, 6907
Casali, V. W. D. 1385, 4692, 4693
Casarini, B. 3990, 3996, 3997, 3998, 4694, 4695, 4696, 4697, 6394, 6429, 7423, 8300
Cash, J. N. 6373
Casian, A. 4898, 6774, 7513
Casini, E. 10026
Caspersson, T. 4769
Cassin, J. 4590
Castañeda B., J. 1870
Castellani, E. 8248
Castillo Martínez, J. 5138
Castillo Z., J. 2961
Castleberry, R. M. 8918
Castro Gamarra, I. 1239
Castro, L. A. B. de 4719
Castro, R. U. 5092
Cătănescu, V. 9285
Catelli, L. 5720, 7711
Catelly, L. 8557
Catena, Q. 389, 1884, 1988
Cătușanu, C. 2329
Cauderon, Y. 4411
Cauquil, J. 9826
Caviness, C. E. 1606, 2374
Čavkaroski, D. 519
Ceapoiu, N. 2524, 3771, 5676, 6682, 7529, 7628, 8537
Ceccarelli, S. 389, 1202, 1884, 1988, 3701, 5165

Cech, F. C. 1490, 1498, 4582
Cedeño-Maldonado, A. 7288
Cedergren, R. J. 6515
Cenov, A. 2519
Centre de Recherches Agronomiques de l'État Gembloux 6546
Centre for Agricultural Research in Surinam 7578
Centro de Investigaciones Agrícolas de Sinaloa 312
Centro de Investigaciones Agronómicas, Venezuela 2461
Centro de Pesquisas do Cacau 3296
Centro Internacional de Agricultura Tropical 4137
Centro International de Agricultura Tropical 7586
Centurion, C. 8913, 8914
Cerchez, N. 6407, 6408
Cernescu, L. 5718, 7711
Černý, J. 218, 6807, 9773
Cerón-Díaz, W. A. 9914
César, G. 9161
Cesar, T. I. 8767
Ceska, O. 6822
Cetl, I. 8390
Ch. Abdul Majid Zafar 1908, 6895, 8029
Ch. Wali Muhammad 9816
Chaadaeva, P. 726
Chabrolin, R. 5088
Chacón Chacón, F. 3210
Chadaeva, L. G. 9789
Chahal, A. S. 2167
Chai Prechachart 5076
Chaĭkovskiĭ, Yu. V. 42
Chaikovsky, Yu. V. 42
Chakrabarti, N. K. 335
Chakraborty, M. K. 1337
Chakraborty, S. N. 5915
Chakravarty, K. 485, 8939
Challen, D. I. 6235
Challice, J. S. 7255, 8136
Chalyk, T. 7804
Chalyk, T. S. 8707
Chamagua, E. I. 9186
Chamberlain, D. F. 8417
Chamberlain, N. H. 178, 1906, 3388, 9509
Chamberland, E. 506
Chambers, D. 4469
Chambliss, O. L. 824, 9282
Chami, A. R. 7990
Chami, A.-ul-R. 7990
Chammek, C. 4392
Chan, H. Y. 2748
Chan, K. W. 7177
Chan, Y.-H. 6162
Chand 201
Chand, D. 8051
Chand, H. 2138
Chand, J. N. 467, 815, 4394, 9004
Chandler, R. F., Jr. 317, 5039
Chandola, R. P 4723, 6436, 6897, 9272
Chandra, S. 295, 409, 2394
Chandramohan, J. 9669
Chandrasekera, L. B. 7208, 7210
Chandrasekharaiah, K. 4872
Chandrasekharan, P. 1185
Chang, C. S. 9797
Chang, E. Y. 529
Chang, H. H. 5928
Chang, H.-s. 1096
Chang, L. C. 7539
Chang, P. C. M. 1343
Ch'ang, P. C. M. 1343, 1344
Chang, P. C. M. 1344
Chang, T. T. 1922, 5036
Chang, T. T 5053, 5072, 5090, 5916
Chang, W. L. 1947, 3657, 3674, 4380, 5036
Chang, W. M. 7359
Chao, C. N. 1152
Chapelle, A. de la 4769
Chapene, U. 7986
Chaplin, C. E. 5414
Chaplin, J. F. 530, 2938, 2939, 6116, 7147, 8969
Chapman, F. M. 2807
Chapman, K. R. 1399, 1400
Chapman, S. R. 4346, 5955
Chapman, W. H. 204, 3578, 8561
Chapurin, F. K. 7313
Chapurina, M. I. 1621, 7485
Charan Singh 29
Chari, M. S. 2005
Charles, A. H. 4406
Charles, J.-P. 2769
Charles, J. P. 5126, 6933
Charles, J.-P. 6981, 7792, 8852
Charles, W. B. 3186
Charn Thongmee 652
Charrier, A. 4499, 7512
Charudattan, R. 938
Chatterjee, B. N. 1777
Chatterjee, S. K. 8284, 8285
Chatterjee, S. S. 3157
Chatterjee, T. 38
Chatterji, A. K. 8111
Chattopadhyay, T. K. 3067
Chaturvedi, H. C. 5383
Chaudhary, B. S. 4948
Chaudhary, M. S. 2394
Chaudhary, R. C. 7435, 10108
Chaudhry, A. R. 243
Chaudhuri, B. B. 6061
Chaussée, D. 8622
Chavdarov, I. 6344
Chavdarov, L. 4090
Chaves, G. M. 2122
Chebotareva, T. N. 7016
Chedd, G. 877, 4760, 7541
Chee, K. H. 7211
Chekalin, N. M. 2003, 6993, 8877
Chekalina, I. N. 6098, 8946
Chelliah, S. 9261
Chen, C. C. 565, 2816, 4419
Chen, C. H. 2932, 2944, 2950, 2952, 3440
Chen, C. S. 567
Chen, H. H. 531, 2935, 8975
Chen, L. C. 1947, 3674
Chen, M.-Y. 6961
Chen, R. 7504
Chen, S. Y. 2953
Chen, S.-Y. 6111
Chen, S. Y. 6111, 8056
Chen, T. M. 5928
Chen, W. Y. 4683
Chen, Y. S. 8074
Cheng, A. L. S. 5273
Cheng, C. H. 345
Cheng, S. S. 3189
Chennaveeraiah, M. S. 7717
Chentsov, Yu. S. 891
Chenulu, V. V. 823
Cherednichenko, V. N. 9533
Cherepanova, R. V. 6021
Cherevatenko, V. A. 10010
Cherezhanova, L. V. 9743
Cherkasova, K. D. 4519
Cherkasskiĭ, M. M. 1701
Chernikova, M. F. 7971
Chernousova, R. A. 9767
Cherny, I. V. 6719
Chernyĭ, I. V. 6719, 7752
Chernysheva, A. I. 9957
Cherry, J. P. 4455, 7187, 7189
Chesneau, J.-C. 1065
Chesneaux, M.-T. 6982
Chesney, H. A. D. 7182
Chesnokov, N. S. 212
Chesters, G. 6416
Chestnaya, V. A. 585, 10018
Cheung, D. S. M. 3519, 7769, 9506
Chevrette, J. E. 353
Chew, B. H. 5046
Chew Cheong Tai 3682
Chheda, H. R. 7474
Chi, P.-y. 2387
Chiang, M. S. 3152, 3153, 3154, 6368
Chiang, T. H. 2932, 9888
Chieasa, M. 3080
Chien, M. 7207
Chikova, V. A. 61
Childers, N. F. 5369
Childers, W. R. 1322, 5151, 6950
Chin, M. S. 4053
Chinese Agricultural Technical Group to Vietnam 7605, 7606
Chingova-Boyadjieva, B. 6168
Chingova-Boyadzhieva, B. B. 6168
Chinloy, T. 1305
Chiotan, G. 9763
Chiou, A.-C. 4683
Chirilă, R. 3593, 5833, 7810
Chiroșcă, J. 8211
Chiru, C. 3956, 8266
Chistova, K. N. 6729
Chistyakova, V. N. 3438
Chiu, A. C. 4683
Chiu, S. M. 2745
Chmeleva, Z. V. 3474
Cho, C. H. 2600
Cho, Y. K. 3991
Chod, J. 817, 8049
Chodjukov, M. 3850
Chodzhukov, M. 3850
Chohan, G. S. 5399
Chojnacki, G. 7751
Cholakhian, D. P. 5375
Cholakhyan, D. P. 5375
Chollada Suchonlimakul 340
Chollet, R. 1073, 1074
Chong, K. W. 4053
Chopanov, P. 5945
Chopde, P. R. 292
Chou, S. T. 330
Chou, T. S. 2748, 6962
Choudhari, K. G. 576
Choudhari, S. D. 292
Choudhary, D. K. 1670
Choudhuri, H. C. 3198
Choudhury, B. 1552, 2305, 2320, 4716, 6427, 9231, 9238, 10125
Choudhury, D. 1148
Choudhury, K. 6746
Choudhury, M. A. 5047
Chow, K. -h. 410
Chow, S. T. 330
Chowdhuri, B. 8284, 8285
Chowdhury, B. 8284, 8285
Chowdhury, J. B. 2829, 5303, 7165
Chowdhury, M. A. 5076
Chrimes, J. R. 6363
Christ, E. G. 5342
Christ, W. 240
Christensen, J. V. 622, 3020, 3028, 3029, 5376, 7275
Christensen, K. 6494
Christensen, V. A. 2709, 2710
Christenson, J. A. 4083
Christiansen, H. 2288, 5477
Christie, B. R. 5948, 6931, 9733
Christie, R. G. 374
Christinet, G. 9386
Christoff, G. T. 2107
Christopher, J. 1969
Christov, L. 3902, 6264
Chroboczek, E. 5485
Chromiński, A. 2321
Chrtek, J. 2763
Chrzanowska, M. 7039
Chu, H. 530
Chu, H. T. 6075
Chu, M. C. -Y. 792
Chu, M. C.-Y. 1578
Chu, Y. E. 2748, 3663, 6920, 6962
Chuang, S. L. 3651
Chuchmiĭ, I. P. 7831
Chugunkova, T. V. 4924
Chung, B. K. 2600
Chupeau, Y. 3262
Church, J. M. F. 7071
Chursa, M. E. 9017
Chuvashina, N. P. 9151, 9152, 9944
Cianciara, T. 5403
Cid Díaz, J. M. 981
Cinar, Ö. 4177
Cinq-Mars, L. 4614
Ciobanu, A. 2560
Ciofu, A. 3593, 4321, 5833, 6835
Ciofu, R. 4032
Cionini, P. G. 882, 8399
Ciorlău, A. 4051
Ciorlăuș, L. 7858
Cipar, M. S. 435, 2854
Cireașă, E. 5355
Čirkova-Georgieva, M. 9225, 9226
Čirkova-Georgievska, M. 9225, 9226
Citokhtzian, G. P. 6698
Ciudad B., C. 3214
Ciurdărescu, G. 5153, 5969
Claridad, F. B. 322, 534
Clark, C. A. 7388, 9216
Clark, F. 2949, 8971
Clark, M. F. 4422
Clark, R. B. 9581
Clarke, B. 5607
Clarke, B. C. 2408
Clausen, K. E. 4636
Clausen, K. T. 9385
Clauss, E. 8278
Claver, F. K. 2026
Claxton, W. 4989
Clayberg, C. D. 2342, 6421
Clayton, C. N. 3031
Clayton, W. D. 3691
Clegg, M. T. 266, 1814, 1815, 2614
Clementa, M. 8557
Clements, R. J. 4403, 4407, 4838, 5951, 5952, 5953
Clerc, P. 1364
Cleveland, R. W. 1197, 1992
Clifford, H. T. 9146
Clingenpeel, A. 9799
Clore, W. J. 5440
Close, R. 394
Clothier, R. B. 3388
Clowes, F. A. L. 894
Clutter, M. 30
Cobâlaș, B. A. 3173
Cochec, F. le 2486, 7528, 9364, 9846
Cociu, V. 7239
Cock, J. H. 316, 5073
Cocking, E. C. 866, 1725, 5666
Cocoa Research Institute, Ghana 6140
Cocoa Research Institute of Nigeria 6136, 8081
Coconut Bulletin 5099
Coconut Industry Board, Jamaica 7292
Codrescu, V. 502
Coelho, D. T. 2122
Coelho, E. T. 2601, 6777, 6790
Coffee Research Foundation, Kenya 5283, 8076
Cohen, D. 6529
Coifan, M. 3567
Cojocaru, C. 7851
Cole, D. F. 8858
Coleman, E. A. 8918
Coleș, N. 5873, 7815
Colhoun, J. 9397
College of Agriculture, University of Arizona 8910
Colless, J. M. 1066
Collin, G. H. 4153, 4155
Collins, F C. 1918
Collins, F. C. 5699, 5788
Collins, F. I. 3233
Collins, F. M. 5874
Collins, G. B. 520, 526, 2102, 2111, 2915, 2930, 2934, 2940, 8054, 8992
Collins, J. 2990
Colmenares, C. S. 3156
Colmenares, C., S. 3210
Colmenares C., S. 6396
Colonna, J. P. 8079
Colorado State University 6800
Colotelo, N. 6057
Comes, I. 3890, 6233

Commercial Grower 601, 720, 737, 741, 1434, 1435, 1440, 1549, 3172, 3968, 3992, 4432, 4557, 4672, 6269, 7296, 7424
Commonwealth Forestry Institute, University of Oxford 6312, 8245
Commonwealth Scientific and Industrial Research Organization 6594
Compton, W. A. 1830, 3555, 4979
Comstock, J. C. 1880, 4327, 9609
Comstock, V. 2890
Condei, G. 10041
Connolly, V. 5167
Constantin, M. J. 4954
Constantinescu, A. 4772
Constantinescu, G. 3914, 3919, 5435, 8207, 8224, 10030
Conte, J. Le 4287
Conti, S. 1886, 1889
Continella, G. 5387, 5388, 5389
Contreiras, J. 2740
Cook, M. 569
Cook, R. 206
Cooke, D. A. 3713
Cooper, C. S. 2703, 2826
Cooper, J. P. 355, 1949, 8823
Cooper, R. L. 9284
Coote, J. N. 2004
Cope, W. A. 9752
Copes, D. L. 2290, 9191
Copp, L. G. L. 5704
Coppolino, J. B. 683
Corbaz, R. 2945, 3819
Corbett, M. K. 1624
Cordero, J. 5611
Corduan, G. 5274
Corgan, J. N. 2307, 2310, 4430
Corkill, L. 4401
Corley, R. H. V. 562, 7176
Corley, W. L. 4528
Corner, E. J. H. 3897
Cornish, P. S. 381
Correa Bulnes, C. 1980
Correll, F. E. 3031
Corroll, D. E., Jr. 3095
Corsi, W. C. 964
Cortázar S., R. 5521
Cortés Muñoz, V. 1335
Cortez F., J. 1870
Cortini-Pedrotti, C. 65
Cosarinsky, A. M. de 8283
Cóser, A. C. 9751
Cosmin, O. 6839
Cosmo, I. 5418, 7324
Costa, A. S. 3161
Costa, F. A. 2751
Costa, J. G. C. da 3221, 4042
Costa-Rodrigues, L. 1088, 3602
Costa, S. I. da 6249
Costacurta, A. 5431
Coste, R. 2962
Costescu, M. 3890, 6233
Coteanu, O. 2230
Cotte, A. 946, 1065
Cotten, J. 2619
Cotter, D. J. 2307
Cotton Research Corporation 7070, 7074, 7076, 8906
Couranjou, J. 3021
Courter, J. W. 10008
Cousin, R. 7512
Coussirat, J.-C. 6122, 6127
Coutinho, M. P. 3922, 3932, 6280
Couto, F. A. A. 1299, 1385
Couture, R. M. 9698
Coventry, D. R. 159
Cowan, J. R. 6657
Cox, E. A. 5536
Cox, E. C. 2412
Coyne, D. P. 2366, 2370, 5563, 6441, 6443, 7463, 9278
Crăciun, T. 4321, 6835, 8397
Craddock, J. C. 1818
Craiciu, E. 2227
Craig, A. G. 6520, 6521
Craig, D. L. 2241, 7216
Craig, I. L. 2616
Cramer, F. J. 7519
Crandall, B. S. 5235, 5236
Crane, E. 69
Crane, J. L. 7339
Crane, P. L. 219, 828, 7793, 7794
Crawford, E. J. 5163
Creech, R. G. 228, 4965
Cremenescu, G. 4051
Crescimanno, F. G. 5377, 9138
Crespo-Ascenso, J. 4812
Cressman, R. M. 1183
Cresti, M. 4708
Crête, R. 3152, 3153, 6355
Crill, J. P. 4016
Crill, P. 2343, 5535, 6424
Crisp, A. F. 6377
Crispín M., A. 1603, 4044
Cristea, M. 3560, 4936, 5841, 8686, 9835
Cristea, S. 6343
Criswell, J. G. 4059
Crivelli, G. 9136
Crofts, J. 1548
Crompton, C. W. 9738
Crook, W. J. 1901, 3640
Crooks, P. 5139
Croon, F. 4679
Crops and Soils 922, 1709, 1990, 3227, 4353, 6694, 6805, 7480, 9370, 9828
Crops Research Institute, Ghana Academy of Sciences 4785, 6574
Cross, H. Z. 234, 3570, 6809
Crowe, A. D. 7214
Crowther, R. F. 4156
Cruz, B. P. B. 3605
Cruz C., B. 9988
Cruz Filho, J. da 2122
Cruz, L. P. 6451
Cruz, M. T. 2643
Cruzado, H. J. 2728
Crystal-ized Facts 3779, 3780
Csapody, G. 6090
Csapody, G.-né 6085
Csapody, Gy. 6090
Csapody, Gy.-né 6085
Császár, J. 4237, 4875
Csatári-Szüts, K. 7454, 7495
Csavassy, G. 7548
Cseresnyes, Z. 6161
CSIRO, Division of Tropical Pastures 5937
Csizmadia, P.-né 1505
Cubero Salmerón, J. I. 3201, 3205, 4024, 4025, 4029, 9267
Cubillos, A. 1230
Cuc, L. 7851
Cudney, D. 8924
Cullis, C. A. 8930
Cummins, D. G. 222, 5029, 6801, 9658
Cummins, J. N. 3009, 8147
Current Report, Agricultural Experiment Station, West Virginia University 223
Currin, R. 8971
Curry, J. P. 1584
Curtis, G. J. 512
Cutcliffe, J. A. 650
Cuthbert, F. P. 822
Cutler, H. C. 1867
Cvasníi, D. 8160
Cvetkov, S. 2519
Cvetkov, V. 5422
Cvetković, D. 9124, 9980
Cvetkovik, D. 3873, 9124, 9980
Cyprus Agricultural Research Institute 6601
Cyrankowska, B. 4367
Czabajska, W. 2402, 7205
Czembor, H. J. 3607, 3629, 4357, 6869
Czerwoniec, Z. 2020
Czomor, T. 4938
Daaloul, A. 4191, 8553
Dabadghao, P. M. 9316
Dabholkar, A. R. 7514
Dabov, S. 8180
Dąbrowska, J. 6177
Dąbrowski, Z. T. 943
Dadli, D. U. 9596
Dafalla, D. A. 4836
Dagnelie, P. 7117
Dahms, D. 8777
Dai, B. B. 6271
Dakshinamurti, V. 291
Dalbar Singh 8878
Dalbir Singh 760
Dalby, A. 2653
Dale, J. L. 257
Dale, M. O. 1342
Dalessandro, G. 8405
Daljit Singh 7748
Dalke, L. 6097
Dalmasso, G. 9169
Dalmir Singh 9023
Dalu, M. 3945, 6322
Daly, J. M. 185
Daly, P. 7443, 7448, 9223
Daly, P.-M. J. 4718
D'Amato, F. 882, 4857
Damigella, P. 3934, 5387, 5388, 5389
Damisch, W. 2702
Damodaram, G. 1913
Damsteegt, V. D. 1340
Dan, V. 2701
Danbert, S. 3531
Dancer, W. S. 6416
Dancik, B. P. 1506
Dancis, B. M. 6511, 6514
Dane, F. 8843
Danert, S. 3623
Daničić, V. 2521
Daniel, D. J. 7544
Dániel, L. 6856
Danil'chuk, P. V. 8529, 8569, 8751
Danilova, L. F. 6187
Dankov, T. 4959
Dános, B. 5293
Danske Landboforeningers Frøforsyning 4157
Dănulescu, D. 10028
D'Appolonia, B. L. 155
D'Arcy, W. G. 4532
Dardenne, G. A. 8836
Dariev, A. S. 2084, 6046
Dark, S. O. S. 5260
Darkanbaev, T. B. 1785
Darling, B. M. 9557
Darlington, L. C. 1801, 7759
Darrah, L. L. 3556, 3574, 8660
Darshana Nand 1461, 1466
Das, A. M. 857
Das, D. K. 3601
Das Gupta, D. K. 2083
Das, K. 1892, 2385
Das, L. D. V. 6819
Das, M. N. 7670
Das, N. B. 4245
Das, P. K. 117, 2891, 7698
Dasaradhi, T. B. 672
Dasgupta, P. 5619
Dashtemirov, B. R. 3068
Daskaloff, S. 2173
Daskalov, H. 3176
Daskalov, Kh. 3176, 3359
Daskalov, S. 797, 2173
Dass, H. C. 2613, 4246
Dathan, A. S. R. 760
Datounachvili, E. N. 9181
Datsyuk, V. P. 2126
Datta, P. C. 8028, 8317
Datta, S. K. 6927
Datta, S. K. de 1940
Dattée, Y. 7935, 8842
Daubeny, H. A. 2246, 4599, 4602, 4603, 6253, 7293, 10002, 10016
Davidescu, D. 3926, 4562, 4625
Davidescu, V. 3863, 4562, 4625
Davidjan, G. G. 8019
Davidse, G. 354
Davidyan, G. G 58, 6055, 8019
Davies, D. R. 5276
Davies, W. E. 1953
Davin, A. 1241
Davis, B. W. 822
Davis, D. L. 7671, 7856, 8637
Davis, D. W. 4335
Davis, H. W. 7376
Davis, J. H. 4733
Davis, P. H. 8417
Davis, R. L. 2796
Davis, S. M. 7793
Davydov, N. N. 8787
Dawidjan, G. G. 8019
Dawley, W. K. 2510
Dawson, R. 8110
Day, A. D. 2680, 2684, 9543
Day, A. W. 1666
Day, K. M. 81, 828, 8343
Day, P. R. 1738, 2753, 8989
Dayal, T. R. 1238, 7968
Daynard, T. B. 244, 4318
Dayton, A. D. 1911
Dayton, D. F. 608, 1398, 7249
D"bov, S. 8180
D'Cruz, R. 3252, 4522, 4612, 4749, 5140, 5543, 5593, 5957, 7421, 8109, 8360, 8361, 8362, 8363, 8364
De, D. N. 7461
De Datta, S. K. 4390, 5093, 9667
De, T. K. 6487
Deahl, K. L. 2864
Deakin, M. A. B. 6508
Dean, C. E. 2115, 5276, 8991
Deangkinay, G. P. 3044
Dearborn, C. H. 6387
Dearing, R. D. 525
Debela, S. 9539
Debelyĭ, G. A. 5585, 7954
Debricon, P. 8913, 8914
Decaprelevich, L. L. 4849
Dechev, I. 3595
Deckard, E. L. 3570, 8592
Deculescu, G. 9763
Dědič, P. 449, 8903
Dedio, W. 2625, 4878
Deeva, V. P. 9750
Degaeve, N. 2973
Degeyter, L. 2313
Degras, L. 7613
Degusarov, A. B. 7122
Dehne, J. 10067
Deidda, P. 2222
Dekaprelevich, L. L. 4849, 6750
Delčev, L. 5560
Delchev, L. 5560
Delhaye, R. 9003
Delhaye, R. J. 1063
Delta Branch Station, Mississippi Agriculture and Forestry Experiment Station 8464
Demarly, Y. 931, 6501, 6502
Dembińska, H. 5298
Dembiński, F. 5311
Demchenko, A. D. 1092
Demchenko, S. I. 4859
Demchinskaya, E. N. 8955
Demel, J. 3303
Demeritt, M. E., Jr. 7359
Demeterio, J. L. 3230
Demetrius, L. 9330
Demin, Yu. S. 3285
Demkin, A. P. 2079
Dempfle, W. 7299
Dempsey, A. H. 4528, 10119
Dempsey, E. 1853
Demyanchuk, A. 9748
Deneke, F. 7357
Denescu, S. 6452
Denettancourt, D. J. M. 7440
Denić, M. 4313
Denisov, G. V. 9439
Denisov, N. I. 5442
Denisov, V. M. 7796
Denisova, R. R. 950
Dennis, B. A. 1201
Dennis, R. E. 505, 6717

Deodhar, A. D. 3845, 7515
Deokar, A. B. 3252, 4522, 4749, 5592, 6352, 8360, 8361, 8362, 8363, 8364
Deore, D. N. 4373
Deosthale, Y. G. 5899
Department of Agricultural Botany, Reading University 1704
Department of Agriculture, Ceylon 6620
Department of Agriculture, Fiji 2470
Department of Agriculture, Kerala 3329
Department of Agriculture, Malawi 6576
Department of Agriculture, Republic of Kenya 5635
Department of Agriculture, Sabah 5629
Department of Agriculture, Seychelles 4784
Department of Agriculture, South Australia 4786
Department of Agriculture, Tasmania 7608
Department of Agriculture, Zambia 6559
Department of Forestry, South Africa 6308
Derera, N. F. 6676, 9403
Dereshkyavichyus, K. 3787
Derevyankin, A. I. 8625
D'ërfi, B. 2112, 8063
Dergach, T. V. 5893
Dergachev, K. V. 8549
Derieux, M. 1065, 2398
Desale, J. S. 3656
Desale, S. C. 4522
Desborough, S. 4443, 5209
Desiderio, E. 67, 7497
Desouki, S. M. 9642
Dessouki, S. M. 1896, 5770, 9642
Deutscher Pflanzenschutzdienst 4780
Devadath, S. 334, 335, 339
Devaraj Urs, K. C. 8337
Devasahayam, P. 326
Devaux, A. 766, 10103
DeVay, J. E. 938
Deverall, B. J. 2368
Devine, T. E. 9737
Devitt, A. C. 4423
Devreux, M. 1893, 2105, 2505, 3813, 4708
Dewey, D. R. 375, 376, 1188, 1189, 1971, 5956, 6958
Dewey, W. G. 975
DeWolfe, T. A. 3040
Dexter, S. T. 4479, 4480, 4482
Deyoe, C. 9443
Dhagat, N. K. 4365
Dhaki, A. J. 7289
Dhaliwal, H. S. 1011, 2378
Dharam Singh 10139
Dharampal Singh 2976, 5883
Dharmalingam, V. 3759, 5217
Dharmpal 456
Dhawan, N. L. 4290, 7811, 8674
Dhawan, S. 2138
Dhesi, J. S. 8098
Dhillon, H. S. 411, 1560
Dholaria, S. J. 7183
Dhulappanavar, C. V. 5117
Diachun, S. 1995
Diaconu, N. 4074
Diaconu, P. 5605, 7806
Díaz, C. 9541
Díaz Castro, G. 8729
Díaz Polanco, C. 3220
Dībrova, L. S. 9080
Dick, J. 1304
Dicke, F. F. 254
Dickinson, H. 2421
Dickinson, H. G. 3960
Dickinson, J. P. 1200
Dickson, M. H. 4725, 4728
Dickson, W. R. 2762
Didus', V. I. 8539
Didus', V. I. 9409
Díez, J. L. 2447
Dihoru, G. 5954
Dijk, A. J. van 735, 3158
Dijk, G. E. Van 362
Dijkman, A. van 4018, 4175
Dijkstra, J. 2817
Dikan', A. P. 9178
Dimchovski, P. 3597
Dimić, N. 4067
Dimitrov, D. 4752, 7623
Dimitrov, D. G. 4087
Dimitrov, I. 4304, 6276
Dimitrov, P. 8681
Dimitrovski, T. 3011, 3873, 9124, 9980
Dimov, A. 1800, 4258
Dina, G. 2329
Dinechin, B. D. de 4971, 5812
Dinoor, A. 74, 75, 205
Dinus, R. J. 3947
Dionigi, A. 4189
Dionigi, A 4205, 4211, 4876, 5321, 6691
Dionne, L. 433
Dip, R. 1310
Dip, R. A. 1308
Dirks, V. A. 2424
Dishler, V. Ya. 4099, 4809, 8747, 9335, 9626, 10155
Dišlers, V. 8747, 9335
Ditu, D. 7497
Dixit, R. K. 5301, 6150
Dixon, G. R. 3704, 5180
Dixon, R. O. D. 806
Djerbi, M. 4256
Djerfi, B. 2112
Dkhote, A. K. 118
Dmitri, L. 5458
Dmitrieva, A. N. 1857, 8653, 9584
Dmitriyeva, A. N. 1857
Doazan, J. P. 663
Döbereiner, J. 3236, 4058, 7465, 7466, 7924, 8346, 9751
Dobeš, F. 3717
Dobiaš, A. 6474
Dobre, F. 4238
Dobreanu, M. 7377
Dobrescu, C. 9697
Dobretsov, A. N. 4249
Dobrev, D. 1124, 3631, 5015, 7861
Dobrinov, I. 3135
Dobrunova, N. L. 7484
Dobson, J. W., Jr. 5029
Docea, E. 3882
Documents Techniques, Institut National de la Recherche Agronomique de Tunisie 6190
Dodoff, D. N. 1800
Dodov, D. N. 1800
Doekes, G. J. 6745
Doggett, H. 8774, 8780
Doghramajyan, H. D. 2263
Dogramadzhyan, A. D. 2263, 5443
Doĭkova, M. 798
Doikowa, M. 798
Đokić, A. 3492
Dokić, D. 6099
Dokuchaeva, E. N. 3096
Dolah, N. F. 3711
Dolan, D. D. 52, 1956
Dolgich, S. T. 716
Dolgikh, S. T. 716, 4653, 6341, 7432
Dolgolikov, V. I. 1495
Dolgopolova, L. N. 9496
Dolgova, S. P. 9433
Dolgushin, D. A. 8589
Dollah, A. A. B. 8875
Dollinger, E. J. 258, 1082
Doman, N. G. 2727
Domańska, H. 1406, 1408, 1415, 9946
Domanskaya, E. N. 4520
Domínguez, R., P. F. 5290, 9894
Dommée, B. 8369
Donaldson, E. 9450, 9625
Dončev, A. 5422
Donchev, A. 659, 1467, 5422
Donchev, N. 1800
Doncheva, I. 1031, 2520
Doncheva, V. 3494, 4830
Donelson, J. R. 1021
Donev, I. 4959
Doney, D. L. 2091, 3796, 4486
Donini, B. 1893, 2145, 2505, 3137, 3813
Donn, G. 4113
Donnelly, E. D. 1215, 4425, 7951, 8866
Donovan, G. A. 675
Donovan, L. S. 6843
Doodson, J. K. 1906, 5876, 9509
Doorenbos, N. J. 2081, 2082
Doorenbos, S. G. A. 1708
Dorion, N. 3262
Dorman, K. W. 7352
Dormling, I. 5851
Dorneanu, A. 7825
Dornescu, A. 9568
Dorobanțu, N. 4393
Dorofeev, V. F. 79, 1028, 7681
Dorofeev, V. M. 7051
Dorofejev, W. F. 1028
Dorokhov, B. L. 1859, 4957, 7642, 8709
Dorosińska, K. 5405
Dorovskaya, I. F. 9585
Dorozhkin, N. A. 10123
Dorozhkina, I. A. 9257
Dorrell, D. G. 4791
Dorsman, C. 735
Dorst, C. 420
Doruchowski, R. W. 2306, 6398
Doruchowski, W. 8267
Dostal, H. C. 624
Douaouri, B. 4619
Doucet, I. 8011
Doucet, M. 8011
Doucet, R. 771
Douglas, C. R. 3758
Douglas, D. R. 2862, 2869
Douglas, G. R. 2639
Doussinault, G. 8622
Dover, G. A. 130, 1774, 2532, 3422, 4228
Dowker, B. D. 8499
Dowley, L. J. 2033, 4446
Downes, M. J. 5796
Downey, R. K. 7166
Doy, C. H. 785, 3274, 3287
Dozordtseva, R. L. 268
Drăcea, A. E. 5738
Dragavtsev, V. A. 1503, 2188, 2270, 2279
Dragavtzev, V. A. 1503, 2188, 2270
Drăghici, L. 5875, 6881, 7833, 7851, 7858
Drake, D. 6976
Dranenko, I. A. 4372
Dranovskiĭ, V. A. 8225
Dranovs'kiĭ, V. A. 9175
Dranovskiĭ, V. A. 9183
Dransfield, M. 8908
Draper, A. 4605
Draper, A. D. 4609, 6259
Draper, H. H. 9591
Draper, S. R. 1126
Dreier, A. F. 8604
Dressler, O. 9310
Drews, E. 5802
Drijfhout, E. 3246
Drinkwater, W. O. 4451
Driscoll, C. J. 2538
Drogacheva, Z. M. 3458, 4230
Drolsom, P. N. 1960, 1961, 6951
Dronzek, B. L. 3440
Drozd, A. M. 1587, 1626, 1633
Drozdenko, R. P. 9093
Drozdov, S. N. 1244
Drummond, G. G. 1193, 6979
Dryaghina, I. V. 588
Dryagina, I. V. 588, 3349
Dryburgh, E. A. 9266
Dsitoghtsyan, G. P. 6698
D'Souza, L. 7673
Dua, H. S. 9929
Dua, I. S. 7997
Duarte, A. S. 8791
Duarte, E. F. 2751
Duarte, R. A. 4037
Dubbs, A. L. 4342
Dube, M. M. 412
Dube, S. D. 8009
Dubetz, S. 2588, 2675, 6735
Dubey, C. S. 1647
Dubey, K. C. 5176
Dubey, R. S. 932
Dubinin, N. P. 893, 1701, 3351, 7615
Dublin, P. 6141, 7157
Dubniak, H. 9794
Dubovenko, N. P. 9179
Dubrovskaya, V. A. 5198
Ducheyne, H. 2313
Duck, B. N. 9553
Duclos, J. 640
Duclos, L. A. 9299
Dudek, M. 2109
Dudits, D. 7501, 8355
Dudley, J. W. 9596
Dudman, W. F. 3237
Dudnik, I. I. 2108
Duerst, R. D. 8640
Duffield, J. W. 1477
Duffus, J. E. 4677, 5993
Duganova, E. A. 3872, 9056
Dukes, P. D. 9891
Dulberger, R. 7096
Dulevska, G. 3476
Dulin, V. K. 9213
Dumanović, J. 4313
Dumas de Vaulx, R. 2170
Dumitrache, V. 2980, 3768, 4940, 6154
Dumitrescu, A. 4645
Dumitrescu, F. 10041
Dumitrescu, G. 7263, 7273, 8160
Dumitrescu, I. 2261, 3927, 4626
Dumitrescu, M. 3956, 5768, 8400, 9274, 9309
Dunbier, M. W. 1983
Duncan, J. F. 8857
Dunckelman, P. H. 9841
Dunin, M. S. 3518
Dunkle, L. D. 3647
Dunn, G. M. 9698, 9699
Dunn, J. A. 3973
Dunn, L. C. 8379
Dunstone, R. L. 1026
Dupont de Dinechin, B. 4971, 5812
Durairaj, V. 497
Durán Grande, M. 4493
Durand, H. K. 10024
Durand, J. 1194, 4113
Durante, M. 882, 4494
Durbin, R. D. 3163
Đurđević, B. 8145, 8158
Durkee, A. B. 8271
Durrant, A. 2885, 2886, 5230
Dutt, B. L. 438, 441, 442
Dutta, O. P. 6378
Dutta, S. K. 2121
Duvenage, A. J. 9083
Duvick, D. N. 9538
Duyn, J. W. Van 4069
Dvořák, J. 3430
Dvorak, J. 3693
Dvořák, J. 4840
Dvornic, V. 3914, 3923, 4628, 8224
Dvoryadkin, N. I. 1356, 1366
Dvoryankina, R. S. 6007
Dwinell, L. D. 10057
D'yakov, A. B. 1367, 1368
Dyakov, A. B. 1368
D'yakov, A. B. 8102
D'yakova, I. A. 2140
D'yakova, M. I. 3349
Dybov, S. 8180
Dyerfi, B. 8063
Dylenok, L. A. 4846
Dyson, P. W. 721
Dyulevari, O. 9575
Dzhabbarov, Kh. D. 5893

Dzhafarov, N. A. 5392
Dzhamalov, A. 3766
Dzhangazieva, R. G. 9426, 9432, 9435
Dzhanuzakov, A. 6106
Dzhelali, N. I. 8352, 8846
Dzhelepov, K. P. 2552
Dzięcioł, R. 7303
Dzięcioł, W. 9946
Dziewońska, M. A. 5187
Długosz, W. 4367
East African Agriculture and Forestry Research Organization 5631, 7590
East Malling Research Station 6180, 7218
Easton, H. S. 4838, 6946, 6953
Eaton, G. W. 4602, 4603
Eberhard, E. D. 9185
Eberhart, S. A. 1082, 1847, 2658, 3556, 8660, 9539
Ebermann, R. 7326
Ebong, U. U. 7475
Ebrahim-Nesbat, F. 2948
Ebron, S. P. 4395
Echandi, E. 3191
Eck, H. V. 8773
Ecochard, R. 4704, 7436
Economides, C. V. 9761
Edgington, L. V. 2714
Edinburgh School of Agriculture, UK 5639
Edmonds, J. M. 3909
Edmunds, L. K. 3646
Edreva, A. 4950, 6113
Edwards, D. I. 9300
Edwards, T. W., Jr. 2238
Edwardson, J. R. 374
Efford Experimental Horticulture Station 1535
Efremova, V. V. 1365
Efremova, Z. S. 9549
Efron, Y. 1763, 2635
Egamberdiev, A. 458, 1277, 9810
Egamberdiev, A. E. 9811
Egamberdiyev, A. 458
Egan, B. T. 495
Egerer, A. 3805, 9893
Egger, E. 2251, 4623
Eggert, D. 6425
Eggum, S. 8524
Eghiazaryan, A. G. 7437
Egiazarov, V. V. 3181, 9336
Egiazaryan, A. G. 7437
Egiazaryan, V. I. 4616
Egli, D. B. 827, 2491, 2644, 3228, 9290
Eglite, G. 3942
Eglite, G. K. 3942
Egorova, A. D. 9407
Egorova, A. V. 8635
Egorova, L. S. 3349
Egoshina, N. 1392
Egresyné Grábner, E. 7937, 7939
Eguchi, K. 7133
Ehara, K. 5947
Ehrenberg, C. 694
Ehrenberg, L. 4313
Ehrendorfer, F. 577, 677, 7658
Ehrendorfer, K. 8540
Eichhorn, K. W. 6284, 8216
Eid, G. H. 3750
Eigen, M. 898, 4778
Eiges, N. S. 6720
Ėĭges, N. S. 6720
Einset, J. 599, 5426, 7312, 7314, 8210
Eisner, M. 5626
Eisner, T. 5626
Ėĭzenberg, V. T. 4099
Ėĭzenberga, V. T. 9626
Ejsmond, J. 3987
Ekberg, I. 1519
Ekeberg, E. 8998
Ėkkerman, N. I. 6825
Ekman, G. 5851
Ekovich, V. Ya. 9110
El-Attar S. 7453
El-Azizy, A. F. 1948
El-Badry, M. A. 4593
El Baradi, T. A. 550
El-Barhamtoushy, M. N. 4262
El-Din, F. N. 7453
El-Ebrashy, M. F. 1829
El-Fadl, M. A. A. 1829
El-Fahl, A. M. 468, 469
El-Fawal, M. A. 9803
El-Gazar, A. 9991
El-Gewely, M. R. 6057
El-Ghaffar, F. M. A. 2093
El Ghaffar, F. M. A. 2093
El-Gindy, M. 7329
El Gindy, M. 7329
El-Hattab, H. E. 7841
El Latif, H. M. A. 2064
El-Latif, H. M. A. 2064, 2066
El Latif, H. M. A. 2066
El-Mahdi, A. M. 2431
El-Manawaty, H. 7329
El Manawaty, H. 7329
El Manhaly, M. A. 2093
El-Manhaly, M. A. 2093
El-Mazar, M. F. 2064
El Mazar, M. F. 2064
El-Mazar, M. F. 2066
El Mazar, M. F. 2066
El Nadi, M. A. 5564
El-Rouby, M. M. 3490
El-Shorbagi, F. A. 1828
El-Shourbagi, F. A. 1861
El-Swaify, S. A. 2088
El Tantawy, A. M. 1948
El-Tantawy, A. M. 1948
El-Zahab, A. A. A. 8862, 8915
Eldridge, B. J. 5537
Elen, A. J. J. 723
Elgersma, D. M. 3193, 4714, 4715
Elgin, J. H., Jr. 3700
Ellala, A. 425
Ellbridge Sub-Station 6654
Ellenberg, H. 7534
Ellerström, S. 5498
Elling, L. J. 5156
Ellingboe, A. H. 92, 2514, 3603, 4201, 4359
Ellis, J. J. 8726
Ellis, J. R. S. 1749
Ellis, P. R. 2302
Ellis, R., Jr. 3230, 6907
Ellis, R. P. 4877, 5722, 7665
Ellis, W. M. 1955
Ellissèche, D. 9210
Ellsworth, R. L. 2632
Elmanov, S. I. 6215
Elmstrom, G. W. 6381
El'nikov, N. I. 8539
Eloev, Yu. Kh. 6208
Emara, Y. A. 2717, 5877
Emerson, F. H. 608, 624, 1398
Emery, D. A. 2988, 2989
Emmatty, D. A. 2330
Ėmmerikh, Ė. D. 7840, 9628
Empig, L. T. 11, 1830
Emrich, E. S. 8763
Enăchescu, M. 6220, 7266
Endler, J. A. 9343
Endo, T. 3333
Endrizzi, J. 8503
Endrizzi, J. E. 4455, 8917
Ene, F. 6433, 7746
Ene, I. 3890, 6233
Enescu, D. 9285
Enev, A. 6188, 6219
Engelbrecht, D. J. 6263
Engelbrecht, T. H. 9382
Ėngel'gardt, V. A. 862
England, F. J. W. 1950
Engle, L. M. 242, 2654, 5916
Engler, U. 5612
Engvild, K. C. 3289
Enică, G. 7956
Enikeev, Kh. K. 6189, 9976
Enken, V. B. 10148
En'kova, A. P. 1474
Ennis, W. B., Jr. 4469
Enns, H. 6157
Enyi, B. A. C. 2908
Epard, S. 1465
Epps, J. M. 9299
Eremeev, G. N. 590, 3869, 4570, 7256
Eremin, G. V. 3887, 7264, 8131
Ergabulov, Zh. 1268, 2056
Ėrgashev, A. K. 1672
Ergun, Y. 9401
Ericksen, A. W. 3358
Erickson, J. R. 5079, 5085, 9488
Ericsson, T. 1486
Eriksson, G. 1519, 8257
Erlepesov, M. N. 3371, 5806
Ermakov, A. I. 9900, 9901, 10047
Ermakow, A. I. 9900
Ernet, D. 7450
Erokhin, V. D. 8884
Eroshenko, T. T. 9531
Erroux, J. 5706
Érsek, T. 1739, 7033
Ertürk, H. 3933
Erwin, D. C. 7091
Esan, E. B. 1678
Escales, A. 5582
Escuro, P. B. 5049, 6922
Esen, A. 630
Esenam, E. U. 651
Ėshankhodzhaev, T. 8919
Ėshankhodzhaev, T. Ė. 1269
Eshbaugh, W. H. 4532
Eshel, I. 8376
Eshel, Y. 846
Esipova, Z. I. 1237
Ėsitashvili, G. L. 10106
Esjunina, A. I. 9847
Eskilsson, L. 400, 2812
Eslick, R. 5010
Eslick, R. F. 2683, 2703, 3617, 4342, 4997, 5131
Esmama, B. V. 5925, 5926
Esponda, P. 7561
Esser, J. 7916
Esser, K. 7534
Estación Experimental Agrícola de Tucumán 3292, 4143
Estación Experimental Agropecuaria Manfredi 1758
Estación Experimental de Aula Dei 919, 7564
Estevão, E. de M. 3802
Estevão, M. M. 3235
Esyunina, A. I. 9847
Ethredge, W. J. 222
Étienne, J. 6855
Etzel, W. 3174
European Brewery Convention 263
Eustatiu, N. 6682, 6711, 7677, 7680, 7760, 8537
Evans, E. M. 8849
Evans, E. P. 4618, 5378
Evans, G. C. 8374
Evans, G. E. 707
Evans, G. M. 1964, 3681, 9704
Evans, H. J. 5549
Evans, K. O. 221, 1836, 9554
Evans, L. E. 2527, 2625, 3207, 4878, 6792, 7712
Evans, L. T. 148, 1026
Evans, S. D. 7483
Evdokimova, V. A. 3622, 6667
Evenson, J. B. 7089
Évéquoz, M. 1397, 3857
Everaert, G. 9412
Everette, G. 520, 8054
Everette, G. A. 2102, 2915, 2934
Everson, E. H. 4201, 9447
Evstigneeva, T. A. 10076
Ewart, J. A. D. 89
Ewartson, G. 6865
Eyal, Z. 8759
Ėzrokhin, L. M. 4190, 4867, 5710
Ėzrokhina, A. S. 4223
Ezuka, A. 3673
Fabbrini, F. 3669
Faber, J. 3111
Fábián, T. 1505
Fabig, F. 7393
Faccioli, F. 1412
Fachry, S. I. 5114, 5226
Facsar, G. 7320
Faculty of Agriculture, University of Ife 6615, 6616
Faculty of General Agriculture, University College, Dublin 8473, 8897
Fadenko, P. S. 7323
Fællesforeningen for Danmarks Brugsforeninger 4157
Fahmy, A. H. 1917
Faĭnerman, L. S. 3096
Fairbrothers, D. E. 378, 2719, 5460
Fairfield Experimental Horticulture Station 7401
Fajersson, F. 112, 1760, 3463, 6692, 6693
Falknäs, P. O. 3324
Falkowski, M. 8808, 8809
Faludi-Dániel, Á. 2727
Fangary, I. M. 3604
Fanguy, H. P. 6069
Faragó, L. 8021
Farah, M. A. 5114
Farey, E. 1005
Farghali, S. A. 5394
Farias, R. M. 6891
Farid, N. I. 5979
Faris, F. S. 5564
Farkas, J. 7422
Farley, J. D. 6403, 8303, 10126
Farm Journal, USA 4972
Farming in South Africa 1411, 2917, 3563
Farnsworth, D. H. 5479
Farrell, L. 9428
Farris, C. W. 8235
Farthing, B. 713
Faruqui, O. R. 8326
Fasih-uz-Zaman 7881
Fasoulas, A. 1787
Faulkner, R. 10063
Faulkner, R. C. 8907
Faust, M. 602, 606, 4565
Faust, N. 105, 106, 229, 826, 2821
Favorov, A. M. 2835
Favret, E. A. 9450
Favret, G. 9450
Fawzi, A. L. 1828, 1861
Fayed, T. M. A. 2093
Fazuoli, L. C. 8078
Fechner, G. H. 6317
Fedak, G. 2693, 2705, 7837, 8752
Feder, W. A. 5499
Federal Department of Agricultural Research, Nigeria 3347, 3348
Federowska, B. 8099
Fedin, M. A. 119, 967, 985, 5713, 7697
Fedorov, A. 8259
Fedorov, G. V. 6340
Fedorov, P. S. 4310, 7803, 9598
Fedorov, V. S. 4275
Fedorova, A. I. 9125
Fedorova, E. E. 5392, 7286
Fedorova, N. A. 887
Fedosenko, V. A. 8575
Fedotova, I. K. 5814
Fedotova, T. I. 8624, 9790, 9791
Feher, E. 6432
Fehleisen, S. O. 1561
Fehr, W. R. 9297, 10150
Feillet, P. 5111
Fejér-Kossey, O. 5275
Feldman, M. 1763
Feldman, M. W. 6517, 6780, 7540, 8376, 9516
Feldman, S. 3846
Felecan, V. 6814, 7000, 7023
Félix, S. 2494
Felsenstein, J. 878
Feng, C. H. 6132
Fensom, D. S. 433
Feodoridi, N. 9810
Feráková, V. 4661
Feredan, I. 7956

Feret, P. P. 1491
Fergus, E. N. 3684
Ferguson, H. 2703
Fernandes, A. 2787
Fernandes, F. T. 3171
Fernandes. R. B. 1455
Fernández-Gómez, M. E. 27, 2445, 2446, 3281
Fernando, D. M. 582, 583, 6178
Fernando, H. E. 5065
Fernando, S. T. 5601
Ferrara, E. 2143
Ferraresi, A. 1889
Ferrari, G. 236
Ferrari, J.-P. 5332
Ferreira, T. 2740
Ferreira, V. 3521
Ferruzzi, L. 9134, 9984
Fersini, A. 629
Ferwerda, F. P. 3350
Fesenko, N. V. 9681
Festić, H. 9111, 9113
Fetterman, P. S. 2081, 2082
Fevralev, V. S. 5830
Fiala, F. 3304
Fiaschi, A. 3820
Fick, G. N. 3836, 9005, 9413
Fiddian, W. E. H. 4821
Fideghelli, C. 9135, 9136
Fiedler, W. 589
Fiedziuszko, J. 3781
Fieldes, M. A. 2887, 8933
Fierlinger, P. 2338
Fife, J. M. 3799, 4486
Figueiredo, I. B. 6249
Figueiredo, J. M. de 2968
Figueiredo, P. 3906
Figueras, C. 2435
Figueroa R., M. 3046, 5401
Filatenko, A. A. 1764, 8560
Filatov, F. I. 390
Filgueira, F. A. R. 4698
Filinova, N. P. 2255, 9173
Filion, W. G. 2451, 4953
Filip, N. 9319
Filipeka, V. 9627
Filipeka, V. F. 8747, 9627
Filipescu, H. 6154
Filippenko, I. M. 3912, 8213, 9170
Filippov, A. S. 6000
Filman, C. C. 4155
Filov, A. I. 9230, 9341, 9347
Filutowicz, A. 6097
Filyutovich, A. 8950
Finch, R. A. 2699, 6668, 6875
Findlay, J. N. 5143
Findley, W. R. 258, 1082, 2674
Fine, L. O. 4888
Finkner, R. E. 80, 84, 387, 1373, 4430
Finkner, V. C. 83, 7671, 7856, 8637
Finlay, K. W. 6641
Finney, P. L. 5752
Finney, R. E. 4907
Fiorino, P. 2220, 2221, 4589
Firman, I. D. 2247
Fischbeck, G. 137, 5859
Fischer, H. E. 6079, 7120
Fischer, M. 5353
Fisenko, S. M. 9421, 9424
Fisher, J. E. 149, 6716, 6736
Fisher, R. A. 8380
Fisher, W. D. 2054
Fiszer, A. 2314
Fitch, L. A. 3615
Fitchett, J. 8486
Fitzsimmons, R. W. 195
Fleing, I. 8638
Fleischmann, G. 192, 193, 1821, 6788
Fleming, A. A. 1875
Fleming, A. L. 6434, 6733
Flengmark, P. 807
Fletcher, A. M. 4646, 10063
Flint, H. L. 3939
Flora, L. F. 1868
Florea, A. 7956
Flowers, R. A. 7150
Fluck, R. C. 6420
Flueck, H. 856
Fober, H. 2289, 4647
Focke, I. 7829
Focke, R. 7829, 7923
Fogel', A. N. 7966
Foguet, J. L. 2233
Fojtík, A. 2761
Fokina, V. M. 8044, 8045
Follet, R. F. 5258
Follieri, M. 9380
Folquer, F. 2242
Foltýn, J. 2565
Fomina, A. I. 5814
Fong, J. H. 6132
Fong, R. A. 6292
Fonseca, H. 1471, 1596, 6135
Fontana N., E. 5026
Foote, W. H. 970, 971, 2682
Foraker, R. W. 9799
Foral, A. 4186
Ford, R. E. 5129
Forde, H. I. 669
Fordham, R. 538
Föreningen Skogträdsförädling 1483, 8253
Forest Tree Research Institute, New Zealand 6305
Forkmann, G. 8377
Forsberg, R. A. 8640
Forschungsanstalt für Landwirtschaft Braunschweig-Völkenrode 4141
Förster, H. 7131
Forster, M. J. 2667
Forster, R. L. 3191
Forte, A. 7004
Fortini, S. 9570
Fossati, A. 4854, 4855
Foster, A. E. 9621
Foster, C. A. 8818
Foti, S. 3995
Fotiadis, N. A. 9808
Fouad, M. K. 7092
Fouda, S. 7390
Fournier, J. 8909
Fouzdar, A. 9302
Fowden, L. 7351
Fowells, H. A. 6791
Fowler, C. W. 4608, 4610, 8197
Fowler, D. B. 115, 7756
Fowler, R. 1841
Fox, D. P. 5474
Fox, J. A. 2119, 2951
Foy, C. D. 6434, 6733
Fradkina, D. L. 9886
Frakes, R. V. 9705
Frame, J. 1965
Frame, J 2758, 2772
França, G. E. de 1109
France Viticole 10031
Francis, A. J. 6964
Francis, C. A. 4288
Francis, C. M. 2819, 4423
Franco, A. A. 3236, 4058, 7465, 7924
Francois, L. E. 509
Frandsen, K. J. 917
Frank, S. 678
Frankel, O. 1706
Frankel, O. H. 6533
Franken, A. A. 6439
Franklin, E. C. 1516
Frans, R. E. 6464
Franzke, W. 6969
Fraser, H. S. 5476
Fraser, L. R. 8185
Fratelli, A. 2197
Frățila, E. 3882
Frazão, A. 3932
Frazier, R. D. 7483
Frecha, J. H. 942, 3391
Frederiksen, R. A. 301, 1920, 7828, 9610
Fredilfs, R. 1926
Freed, R. D. 9447
Freeland, R. D. 9553
Freeling, M. 1842
Freeman, C. E. 8034
Freeman, G. H. 8499
Freeman, J. E. 88
Freeman, W. H. 5042, 5066
Fregoni, M. 9984
Freire, A. de B. 2650
Freitas, A. P. do C. e 3515, 7768
French, E. R. 2030
Frenhani, A. A. 3605
Frey, K. J. 197, 198, 1046, 1817, 1819, 7777
Freyman, S. 2675, 6828
Friederich, J. C. 2072
Frimmel, F. 6624
Frimmel, G. 9638
Fritsche, G. 4092, 5600
Frogner, S. 1664
Frohberg, R. C. 8551, 9472
Froidmont, F. 7835
Frolova, E. M. 893
Frömberg, H. K. 240, 8714
Fröst, S. 5794
Fruit, R. 1242
Fry, P. R. 623
Frydecka, Z. 1354
Frydenberg, O 6868
Frydrych, J. 7958
Fryer, J. H. 699
Fryxell, P. A. 2067
Fu-Mei Yu-Jean, F. 6431
Fuchs, E. 178
Fuchs, J. A. 9806
Fuchs, W. H. 4180
Fudge, T. G. 2344
Fudulov, D. 9550
Fufaeva, L. D. 9978
Fujii, T. 3341, 3342, 3344
Fujimaki, H. 9671
Fujimoto, F. 2090
Fujita, M. 8162
Fujita, T. 3498
Fujiwara, H. 7692
Fujiwara, S. 5267
Fukasawa, H. 3264, 3421
Fukui, J. 5578, 5579
Fukuoka, H. 5179
Funduianu, D. 3270, 8686
Funduli, Kh. 5328
Funk, C. R. 2762
Funsch, R. W. 7357
Furber, M. J. 5180
Füredi, J. 5586
Füri, J. 657, 5420
Fursa, T. B. 5507
Fursov, V. N. 1279, 1701, 7067
Fürste, K. 7120
Fürste, W. 7120
Furusawa, F. 4391
Furusawa, M. 6121
Furuya, T. 7141
Furuyama, S. 5597
Fuseler, J. W. 7349
Futsuhara, Y. 5107
Fuzita, M. 8162
Gabbasov, A. M. 1768, 8573, 9436
Gabchenko, A. 3984
Gabelman, W. H. 2303, 3959
Gaber, S. D. 1900
Gabriel W. 6025
Gabriel, W. J. 5464
Gabucan, A. N. 2041
Gacek, E. 210, 4844, 7781
Gackowska, Z. 6410
Gadgil, M. 1656
Gafoor, A. 2127
Gagiu, F. 7548
Gagov, V. 3135
Gaisenovich, A. E. 53
Gaissinovitch, A. E. 9322
Gajipara, N. N. 2166
Galal, H. E. 4457
Galán, A. 6104
Gale, M. D. 6741
Galeev, G. S. 6798, 6838, 9547
Galitskiĭ, V. 3399
Gall, H. 10049, 10050
Gall, W. 9381
Gallaher, R. N. 2655
Gallais, A. 1652
Gallander, J. F. 667, 6289
Gallardo Zerpa, A. 5138
Gallegly, M. E. 2864
Gallesio, G. 3266
Galletta, G. J. 4604, 7297
Galletti, P. 4058
Galliard, T. 7980, 7981
Gallinet, J. P. 3686
Gallun, R. 4201
Gallun, R. L. 81, 5785
Galuinadi, J. 6076
Galvez, A. M. 2895
Gálvez E., G. 346, 6930
Gaman, J. H. 896
Gamazaev, T. Ch. 2262
Gambrell, C. E. Jr. 625
Gamkrelidze, L. M. 9451
Ganchev, P. 3122
Gandía, H. 7307
Gandilian, P. A. 1029, 3488, 4194, 6760
Gandiljan, P. A. 8532
Gandilyan, P. A. 1029, 3488, 4194, 6760, 8532
Gane, A. J. 10170
Ganesan, J. 9232
Ganeva, D. 3242, 4075
Ganga Prasada Rao, N. 7866
Ganga Prasada Rao, N 7867
Gangopadhyay, S. 830
Ganiev, S. G. 7082
Ganusevichyute, L. 2698
Garamfalvi, D. 8269
Garan'ko, I. B. 3957
Garanzha, B. V. 8657
Garber, E. D. 2304
García Durán, E. 5094, 8783
Garcia, E. H. 7044
Garcia, G. 4832, 4851
Gardan, L. 628
Gardiner, A. S. 686, 3128
Gardner, C. O. 297, 1830, 3555, 9540, 9651
Gardner, J. M. 302
Gardner, W. S. 6126
Gardzeĭ, G. M. 8687, 9440
Gardzeĭ, Ĭ. A. 8687
Gareev, D. B. 6101
Gareyan, R. S. 4438
Garg, V. K. 1238
Gargiulo, A. A. 3094, 3911
Garin, G. I. 691
Garkavaya, L. P. 4320
Garkavyĭ, P. F. 8737, 8751
Garms, È. I. 8706
Gărnevski, V. 4568
Garren, K. H. 7194
Garrett, P. W. 4644
Garrison, C. S. 1183, 5137, 7948, 8858, 9719
Garwood, L. D. L. 4965
Gascon, J. P. 560
Gascon, J.-P. 8108
Gaskill, J. O. 3795, 4484, 4485, 8964, 9854
Gaşpăr, I. 4273
Gaşpar, I. 4919
Gaşpăr, i. 7782
Gaspar, I. 9519, 9620
Gasquez, J. 4409
Gasser, D. L. 9329
Gasser, H. 2809
Gastel, A. J. G. van 7440
Gastel, A. J. van 3807
Gates, J. E. 6206
Gates, L. F. 2666, 3197, 4329
Gatherum, G. E. 5479
Gatina, È. Sh. 8170
Gatiyatullina, È. Z. 886
Gatti, M. 8404
Gault, R. R. 3709
Gaur, P. C. 5206
Gausi, R. K. 5216
Gauthier, F. 82
Gauthier, F. M. 191, 260, 9368, 9517, 9618
Gava, A. J. 4010
Gavazzi, G. 4307, 8677
Gavidia O., A. 6930
Gavrilina, Z. M. 618, 9972
Gavriljuk, I. P. 4219
Gavrilov, G. P. 5432
Gavrilova, O. M. 4657
Gavrilović, M. 9061, 9104
Gavrilyuk, I. P. 996, 1614, 4219, 5199
Gawaad, A. A. A. 3767

Gazizov, K. G. 5735, 9434
Geafar, B. 4021
Gebert, J. R. 505
Gecheff, K. I. 1118, 5005
Gechev, K. I. 1118, 5005
Gedda, L. 8415
Geenen, J. E. E 3012
Geier, T. 39
Geiger, H. H. 3548
Geissler, E. 9
Geldres R., H. 8093
Gellért, K. 933
Gemesh, L. 9586
Geneĭdi, G. S. 10077
Generalova, M. V. 3285
Genève, R. 6128
Genevès, L. 643
Genevois, L. 614
Geng, H.-Y. 9443
Gengenbach, B. G. 4327, 9735
Gengenback, B. 8711
Genier, G. 393
Gent, G. 7455
Gent, G. P. 803
Gentel, D. U. 9889
Genter, C. F. 2647, 2648, 5808, 8661, 9605
Gentry, H. S. 486
Genys, J. B. 7364
George, D. W. 4232, 4251
George, E. 9342
George, G. D. 4595
George, K. P. 8931
George, W. L., Jr. 9235
Georgescu, F. 3918
Georgescu, M. 3884, 3914, 3924, 5435
Georgescu, T. 5368
Georgiev, G. 4090
Georgiev, I. 9550
Georgiev, S. 3833, 9550
Georgiev, T. 3566
Georgiev, T. M. 1091
Georgiev, V. 6224, 8166
Georgiev, Z. 5147, 7934
Georgieva, Ĭ 7172
Georgieva, R. 3359, 3360, 4000, 5523, 8306
Georgieva-Todorova, Ĭ. 5315
Georgieva-Todorova, J. 5315
Georgieva, Y. 7172
Georgyan, A. M. 4241
Geraci, G. 3843
Gerasenkov, B. I. 4947
Gerasenkova, E. D. 431
Gerasimenko, I. I. 10023
Gerasimov, N. G. 4977
Gerasimov, N. M. 1032
Gerdes, G. 9850
Gerechter-Amitai, Z. J. 8761
Gerhold, H. D. 7359
Geri, C. 4494
Gerin, G. 3858, 7244, 9057, 9134
Gerloff, G. C. 6434
German, È. 3749
Germesashvili, B. I. 8883
Gerstel, D. U. 2110
Gervais, P. 353
Geshele, È. È. 8525, 8723, 9502, 9504
Gesner, M. 5296
Gevorgyan, H. M. 1783
Gevorkian, A. M. 4241
Gevorkyan, A. M. 1783, 4241
Ghabrial, S. A. 7453
Ghai, B. S. 6896
Ghandilyan, P. A. 4194, 6760
Ghatge, R. D. 8363
Ghazi, S. E. D. 1861
Ghazi, S. M. 1849
Ghebrial, S. 7390
Gheita, M. 7390
Gheorghieș, C. 4898, 6774
Gheorghiev, M. 3593
Gheorghiță, M. 5439, 6293, 8219
Ghidoni, A. 1852
Ghisleni, P. L. 5334, 5335
Ghizdavu, I. 5787, 6854
Ghorashy, S. R. 9312
Ghose, M. 324, 7882
Ghosh, A. K. 320, 3667
Ghosh, J. 2327
Ghosh, J. J. 1164
Ghosh, S. K. 484
Ghosh, T. 6060
Ghoshal, K. K. 4912
Ghulam Shabbir 489
Giandana, E. H. 2149, 2150, 2152
Gibbs, A. F. 363
Gibbs, J. N. 3131, 6319, 8249
Gibeault, V. A. 6944
Gibson, A. H. 7949
Gibson, I. A. S. 2286
Gibson, P. B. 2816, 4419, 9740
Gibson, R. W. 2038
Gichner, T. 2612, 3276, 3620, 5002, 6871, 7839
Giebel, J. 443, 444, 9793
Gielo, S. 1047, 1729
Gierat, K. 959, 962, 3546, 3551, 5014
Giertych, M. 2289, 4647
Gifford, J. R. 344
Gifford, R. M. 6830
Gikalo, G. S. 9022
Gikić, M. 8854, 8855, 8856
Giles Saez, J. 6045
Gilewska, M. 6024
Gill, B. S. 285
Gill, C. C. 282
Gill, G. S. 163
Gill, H. S. 2359, 9233
Gill, K. S. 134, 1560, 2747, 4348, 4530, 4884
Gill, L. S. 853
Gill, R. S. 1049
Gillaspie, A. G., Jr. 9845
Gilles, K. A. 155
Gillet, M. 358
Gillett, J. M. 1991, 9738
Gillies, C. B. 2799, 2800, 2801, 8697, 9572
Gilmer, R. M. 599, 5447
Gilmour, J. 5677
Giménez Lascano, O. 1308, 1310, 2085
Giménez-Martín, G. 27, 2445, 2446, 2447, 2448, 2449, 2450, 3281, 7561
Ginku, A. I. 7331
Ginzburg, E. H. 8395
Ginzburg, È. Kh. 8395
Giosan, N. 3501, 4738, 6455, 6456
Giovanardi, R. 5888
Girard, J.-M. 1223
Girardeau, J. H., Jr. 535
Gîrd, D. 6653
Girenko, M. M. 711, 10090
Girfanov, V. K. 6744
Girgidov, D. Ya. 1495
Giri, J. 7749
Girouard, R. M. 6325
Giulivo, C. 3014, 9134
Giura, A. 5747
Gizbullin, N. G. 6101
Gjedrem, T. 5
Gladishko, S. A. 9772
Gladstone, W. T. 1489
Gladstones, J. S. 5173, 9366
Glass, R. L. 3616
Glasshouse Crops Research Institute 9198
Glavach, M. 9622
Glăvan, P. 8340
Glazacheva, L. I. 7503
Glazova, M. V. 9931
Glendinning, D. R. 542
Gliha, R. 7257
Głodeanu, C. 3890, 6233
Glover, D. V. 1863, 9592
Głowinkowska, A. 4176
Glukhovtsev, V. V. 1890
Glukhovtseva, N. I. 8624
Glushchenko, E. Ja. 10122
Glushchenko, E. Ya. 10122
Glushchenko, I. E. 2563, 4095, 4209
Glushchenko, N. N. 1643
Gluza, I. 9391, 9392, 9393
Gnezdilov, Yu. A. 2216
Göbö, A. 2572, 4229
Goddrie, P. D. 3015
Godeanu, I. 6223
Godfrey-Sam-Aggrey, W. 1420
Godunov, I. A. 2802
Godward, M. B. E. 847
Goel, L. B. 177, 9641
Goering, K. J. 5010
Goetze, N. R. 6944
Goggans, J. F. 691, 5484
Gogiberdze, A. A. 3038
Gogoi, S. C. 2955
Gogun, G. B. 7688
Gohal, M. S. 411
Gohil, R. N. 7391, 9896
Gøhrn, V. 685
Goia, E. 5166, 5976, 7974
Goĭkhman, B. M. 1850
Golban, N. M. 9301
Goldberg, R. B. 4686
Golden, R. 8971
Goldschmidt, R. 9321
Goldsworthy, P. R. 4298
Golenkov, V. F. 1827
Golenkovskiĭ, K. P. 1168
Golenkovskiy, K. P. 1168
Golik V. S. 1022
Gollifer, D. E. 2098
Golodkovskiĭ, V. A. 3581
Golodkovskiĭ, V. L. 1866, 9567
Golodriga, P. Y. 9175
Golodriga, P. Ya. 3101, 3910, 8225, 9183
Golodriga, P. Ya 9377, 10034, 10035
Golosov, V. A. 1270, 7064
Golovchenko, V. I. 7954
Golovin, V. V. 7083
Golovko, T. N. 8634
Goltz, S. M. 2573
Golubev, A. A. 1636
Golubinskiĭ, I. N. 8934
Gomaa, A. S. 8582
Gomes, E. P. 1755
Gomes, J. G. 3171
Gomes, M. R. M. 3665
Gomez, A. A. 4366
Gomez, K. A. 1940, 1941
Gómez, N. 2978
Gomez, R. E. 6248
Gonçalves, J. R. C. 4536, 4537
Gonchar, I. D. 247, 9363
Goncharik, M. N. 7620
Goncharov, P. 7928
Goncharov, V. S. 9542
Goncharov, Yu. P. 3625
Goncharova, L. P. 4947
Goncharova, R. Kh. 5780
Gondran, M. 8120
Gontarovskiĭ, V. A. 3586, 3588, 9588
Gontarovsky, V. A. 3586, 3588
Gontijo, V. de P. M. 8763
Gonzales, J. R. T. 9578
Gonzales, V. 8252
González-Bernáldez, F. 1997, 2823
González-Fernández, A. 27, 2446, 2450, 3281
González-Fernández, M. A. 2447, 2448
González, J. 5287, 7155
González, J. A. 3824
Gonzalez, L. C. 2029, 2861
González, M. A. 8967
González, V. 1359
Good, J. M. 5537
Good, W. 6535
Goode, M. J. 2344, 6391
Goodin, J. R. 509
Gooding, H. J. 7305
Gopala Rao, P. 9919
Gopalachari, N. C. 8981
Gopalakrishna Bhat, M. 8337
Gopalan, M. 1423, 9996
Gopalaswami, N. 8050
Gopani, D. D. 6460
Goplen, B. P. 3713
Goplin, E. D. 5009
Góral, S. 1203, 4421, 7943
Gorbacheva, R. G. 8937
Gorban', G. S. 5724, 6709, 9422
Gorban', S. M. 9096
Gorbet, D. W. 1139
Gordon, A. G. 5866
Gordon, A. J. 8688, 8689
Gordon, I. L. 8983
Gordon, J. 8234
Gordon, S. J. 1123
Gorea, T. 7012
Gorenkova, L. G. 10164
Gorgidze, A. D. 4862, 9430
Gorina, E. D. 2756
Gorlach, A. A. 5782
Gorlushkina, V. P. 1524
Gormley, T. R. 6268
Gorodea, G. 3079, 6278
Gorodetskiĭ, V. S. 7026
Goroshko, V. V. 9166, 10017
Gorshkova, G. A. 9970
Górska-Melke, A. 398
Górski, T. 6885
Gorya, V. S. 6823
Gorz, H. J. 8860
Gosen, O. 2251
Gospodinova, E. 1800
Gössel, M. 9326
Gostev, A. A. 1645, 2403, 9018
Gostimskiĭ, S. A. 4078
Gostimsky, S. A. 4078
Goswami, A. K. 5021
Gosztonyi, M. 6849
Goth, R. W. 7028
Goto, K. 4405, 4737, 7910
Gotoh, K. 4405, 7910
Gotsov, K. 4218
Gotsova, V. 2520, 7744
Gottschalk, W. 3244, 4079, 5583, 7397
Goud, J. V. 1157, 1910, 5031, 5748, 5894, 6904, 9663, 9666
Gough, F. J. 2599
Gough, R. E. 5357
Goujon, M. 1345
Goulas, C. K. 1787
Gould, F. W. 2719
Gould, W. A. 1580, 2339, 2363, 7425
Goulkanyan, V. H. 4194
Goven, M. J. 7672
Govers, A. 761
Govinda Das, G. 2165
Govindaswamy, C. V. 289, 553, 5884
Govindaswamy, K. N. 2896
Govindaswamy, S. 3667
Govindu, H. C. 290, 307, 6129
Govorov, N. V. 4988, 9615
Graaf, A. J. A. v. d. 1634
Grabiec, B. 9903
Grábner, E. 7937, 7939
Grabner, E. 9318
Grabouski, P. H. 8604
Gracen, V. E. 249, 2667, 8724
Grachev, E. A. 6001
Gracia, Y. M. 2190
Gráczol, G. 1888
Gradetskas, A. I. 3950
Grafius, J. E. 1050, 8675
Graham, D. 41
Graham, K. M. 7830
Graham, P. H. 1977
Graham, W. D., Jr. 8750
Graifenberg, A. 9253
Grainger, V. F. 6363
Grancini, P. 4981
Grandi, P. 3602
Graneros, I. E. 4928
Granger, R. 7522
Granger, R. L. 8200
Grant, C. A. 2654
Grant, E. A. 6950
Grant, M. N. 114, 3418
Grant, W. F. 21, 558, 1048, 1224, 1507, 2432, 3716, 7556, 7647, 7657
Grasco Pérez-Caballero, J. L. 2358
Grasselly, C. 3117, 10050, 10052, 10053

Grasslands Research Station, Rhodesia 5656
Grau, I. 4428
Graven, E. H. 2859
Graves, C. R. 6844, 9553
Gray, D. 6013
Gray, J. R. 7823, 7832
Grebenkin, A. P. 8059
Grebenščikov, I. 2425, 3580
Grecu, C. 4940, 4986
Greeley, L. W. 641, 4609
Green, G. J. 9398
Green, J. H. 4655, 7386
Greene, G. L. 5903
Greenwood, C. T. 275
Greger, H. 7450
Gregorius, H. R. 690
Gregory, E. J. 4430
Gregory, J. E. 84, 387
Gregory, P. H. 543
Gregory, W. C. 5081
Greguss, P. 6758
Greilhuber, J. 4104
Gremmen, J. 684
Grenada C., G. A. 3039
Grenier, G. 9730
Greshnykh, B. A. 1092
Gresshoff, P. M. 785, 3274, 3287
Grewal, S. S. 6992
Greyson, R. I. 9248
Grib, N. I. 8877
Grib, S. I. 2695, 9619
Grice, W. J. 4497
Griffith, P. R. 8689
Grigalyunas, M. 6633
Griggs, S. H. 6242
Griggs, W. H. 2186, 6241
Grigor'ev, M. F. 1802
Grigor'eva, S. K. 4439
Grigorian, A. S. 6816
Grigorovskaya, M. V. 6418
Grigoryan, A. K. 4438
Grigoryan, A. S. 6816
Grimal'skiĭ, V. I. 1524
Grimbly, P. E. 4649
Grin', V. P. 7957
Grinenko, P. P. 4231
Grisenko, G. V. 6853, 9611
Grishanovich, A. K. 6270
Grishchenko, È. D. 6863
Grishina, E. E. 1170
Grishina, E. V. 4951, 5615, 9574, 9613
Grishko, V. P. 4491
Gritton, E. T. 2387
G"rnevski, V. 4568
Grochowski, L. 3539
Grodzinskaya, G. S. 8955, 9882
Grogan, C. O. 249, 1846, 2667, 8500
Gröger, D. 3254
Grosclaude, C. 2211
Grosmann, A. 2671
Grossman, L. G. 6728
Groszmann, A. 7465
Grou, E. 4375
Grove, D. R. 9543
Groven, I. 3055, 4601
Gruenberg-Fertig, I. 1198
Grujić, S. 7809
Grummt, C. 7738
Grun, P. 445, 2022
Grüneberg, J. 508
Grunwald, C. 762
Grünwald, C. 7458
Gruppe, W. 7271, 9121
Gruzdev, L. G. 91
Grygorczyk, L. 5965
Gryuner, A. M. 3868
Grześkowiak, C. 6786
Gubanova, M. A. 6700
Gubareva, N. K. 996, 6740
Gubbels, G. H. 5495
Gubernator, V. V. 8633
Gubin, I. A. 1644
Gubta, R. R. 8090
Gudauskas, R. T. 1967
Gudz', Yu. P. 590
Gudzenko, A. A. 9948
Gueorgueva, R. 8306
Guerrero, C. H. de 9988
Guerrero, O. 2081
Guethle, D. R. 6035
Gugušević-Đaković, M. 3889
Guha-Mukherjee, S. 5924
Guille, E. 8378
Gulamov, M.-K. K. 7066
Gulayeva, Z. B. 1055
Gulkanian, V. O. 4194
Gulkanyan, V. O. 4194
Gulyaev, A. A. 5818
Gulyaev, G. 6663
Gulyaev, G. V. 5663, 5743, 7677
Gulyaeva, Z. B. 1055
Gumaniuc, L. 4415, 5158
Gunar, I. I. 8621
Gunasekaran, C. R. 3195
Gunasekaran, M. 308, 3645
Gunasena, H. P. M. 2011
Gunawardena, I. E. 3670
Gunawardena, S. D. J. 6922
Gunckel, J. E. 4451
Gunda, R. 6757
Gundaev, A. I. 9007
Gun'kov, Yu. P. 7787
Gunn, R. E. 7668
Günther, E. 7430, 7552
Gupta, B. K. 7301
Gupta, D. S. 1637, 2606
Gupta, K. P. 164
Gupta, M. P. 456
Gupta, N. P. 4322
Gupta, P. K. 1951, 2511, 3379, 7727
Gupta, R. 9016
Gupta, R. R. 8092
Gupta, R. S. 6064
Gupta, S. 8938
Gupta, S. C. 8015
Gupta, S. K. 1936, 5594
Gupta, S. P. 5219, 6051
Gupta, U. S. 6765
Gupta, V. P. 571, 2585, 4085, 8766
Gupta, Y. P. 8316, 9594
Gupton, C. L. 2117, 2118
Gurbux Singh 5206
Gurchenko, V. 5679
Gurdalbir Singh 6174
Gurdip Singh 4903, 5018, 5774, 6051
Gur'ev, B. P. 7802, 9544
Gur'ev, D. G. 1500
Gurevich, L. I. 1701
Gurinovich, O. I. 2564
Gurney, E. G. 1668
Gurtschenko, W. 5679
Gurzhiev, G. A. 6905, 6988
Gurzhiĭ, E. S. 8934
Gusarova, I. S. 5828
Guseĭnov, N. 743
Guseĭnova, A. G. 7733
Guseva, A. I. 8694, 8699, 8700
Gushchin, M. F. 604, 9950
Gus'kova, G. G. 5981
Guss, A. 7466
Gustafson, H. L. 3009, 8147
Gustafson, J. P. 131, 9530
Gustafsson, Å. 694
Gustafsson, A. 5851
Gusynina, L. M. 3903
Gutenmacher, P. 5562, 7458
Gutenmaher, P. 5562, 7458, 8328
Guthrie, W. D. 254, 1387
Gutiérrez de Solanes, V. 6840
Gutierrez, L. E. 1471, 6135
Gutstein, Y. 6047
Gutsulyak, E. K. 8959
Guy, P. 393, 1194, 2809
Guyot, A. 9003
Guyot, N. H. 7921, 7931
Guzewska, I. 1403
Guzhov, Yu. L. 7639
Gvozdeva, Z. V. 2351
Gwynn, G. R. 6116, 8970
Gyarfas, J. 184
Gymer, P. T. 5949
Győrffy, B. 2112, 8063
Gyulavári, O. 9575
Gzyrian, M. S. 9994
Gzyryan, M. S. 9994
Głębczyński, E. 3739
Haag, H. P. 6041
Haag, W. L. 8838, 8851
Haard, N. F. 3010
Haberlach, G. T. 4496
Haberman, E. 2037
Habgood, R. M. 2713, 9637
Habib, A. F. 10022
Habib, M. M. 3711, 4028
Habibur Rehman 2974
Håbjørg, A. 3127, 5124
Hachinohe, M. 5245
Hachtel, W. 2410
Hackbarth, J. 1209, 5171
Hacker, J. B. 6957, 7863
Hackerott, H. L. 3641, 3648, 3649
Hackler, L. R. 4725
Haddad G., O. 3046, 5401
Haddad, O. 1453
Hadders, G. 1485, 8255
Hadley, H. H. 1616, 4064, 9295
Hadwiger, L. A. 479, 4083, 4460
Hafeez Ullah 9816
Hafiz, A. 102, 216, 6681, 6768
Hagberg, A. 4799
Hagedorn, D. J. 10172
Hageman, R. H. 1611, 8773
Hagemann, R. 8, 2423, 6493
Hagiyuki, H. 676
Hagmann, M. 1479
Hahn, M. 7403
Hahn, S. 4926
Haikerwal, M. 300
Haile, M. 2848
Haine, K. E. 733
Haizel, K. A. 6447
Hajnalová, E. 6671
Hakam, M. M. 1896
Halász, É. 4333
Hale, C. N. 395
Halevy, A. H. 759, 1553, 2324
Hall, A. D. 5846
Hall, A. E. 3798
Hall, C. B. 6376
Hall, D. H. 4989
Hall, I. V. 4613
Hall, M. O. 749, 750, 3164
Hall, O. 66, 2624
Hallauer, A. R. 3574, 8662, 9539
Halliday, R. B. 5608
Halsey, L. H. 8301
Halva, E. 5801
Ham, C. E. 7483
Hamann, H. K. 8068, 8972
Hamdi, Y. A. 5564
Hämet-Ahti, L. 5985
Hamill, D. E. 7649
Hamilton, M. 7524
Hamilton, R. A. 4630
Hammes, P. S. 3634
Hammons, R. O. 1377
Hampson, M. C. 8896
Hamrick, J. L. 196, 1527, 1815, 2614
Han, C. Y. 26, 6528
Hanawalt, P. C. 863
Hancock, N. I. 3754
Handa, D. K. 751
Handke, S. 9227
Handley, R. P. 7509
Hanelt, P. 3623, 5554, 5555, 5556
Häni, F. 4253
Hanna, J. D. 6300
Hanna, M. R. 3718
Hanna, W. W. 8765, 9648
Hanover, J. W. 1525, 4639
Hans, A. S. 4631, 6311
Hansche, P. E. 669
Hänsel, H. 3410, 6689, 8540
Hansen, A. 3047
Hansen, H. 215
Hansen, P. 5356, 8135
Hanslas, V. K. 158, 5030
Hanson, A. A. 7903
Hanson, C. H. 9734
Hanson, P. 3386
Hanson, W. D. 2657, 9577
Harada, H. 5627
Harada, J. 5918
Harada, K. 6827
Harahap, Z. 5045
Harata, T. 5267
Harberd, D. J. 3151
Harborne, J. B. 8271, 9146
Harding, H. 1039, 5773
Harding, J. 1219, 6990
Hardman, J. A. 2302
Hardon, J. J. 562, 7176
Hardwick, R. C. 3215
Hari Kishore 430, 6009
Hariharasubramanian, V. 536
Harkess, R. D. 2758, 2772
Harlan, J. R. 241, 242, 9659
Harland, J. 8403
Harle, J. R. 2428
Harms, C. L. 6906
Harms, F. 4934
Harn, C. 26, 6528
Harnam Singh 4903, 5774
Harney, P. M. 2097
Harper, J. E. 1611
Harper, J. L. 2757, 9525
Harpstead, D. D. 8675
Harries, H. C. 7291
Harrigan, E. K. S. 533
Harrington, E. 3034
Harrington, J. D. 428
Harris, G. 4553
Harris, H. B. 5903, 8775
Harris, J. M. 1522
Harris, M. K. 4571
Harris, N. V. 2101
Harris, R. E. 3186, 3555, 9164
Harris, R. H. G. 1304
Harris, W. 5978
Harrison, C. M. 6314
Harrison, M. L. 2866
Harrison, M. N. 4294
Hart, R. H. 9729
Harte, C. 4110, 8396
Harten, A. M. van 930, 2841, 7009
Hartl, D. L. 7538
Hartley-Asp, B. 4103
Hartwig, E. E. 9292, 9299
Hartzook, A. 3846
Harvey, B. L. 1120, 1898, 2689
Harvey, D. M. 2384, 2388
Harvey, P. H. 2413
Harvey, T. L. 3648, 3649
Hasegawa, G. 9320
Hasegawa, T. 5245
Hashem, M. I. 1917
Hashimi, S. 4233
Hasler, A. 7906
Hassan Abedi 5279, 6127
Hassan, F. M. 3213
Hassan, M. A. 6877, 10175
Hassan, S. F. 6769, 6776
Hastie, A. C. 7029
Hastings, A. 6976
Hastings, A. M. 1661
Hastings, P. J. 5613
Hatada, K. 5142
Hatch, M. D. 4720
Hatchett, J. H. 5785
Hathcock, B. R. 9521
Haunold, A. 8997
Häuser, H. 5859
Hauska, T. 1175
Hautke, P. 5297
Have, H. ten 2752
Havlíčková, H. 849, 2396
Havránek, B. 6118
Havránek, P. 6118, 6393
Hawker, J. S. 5433
Hawkes, J. G. 7648, 7656
Hawkins, G. W. 2647, 2648
Hayashi, J. 2690
Hayashi, K. 4384, 7885
Hayden, R. E. 433
Hayes, A. H. 1978
Hayes, J. D. 2513, 2619
Hayter, A. M. 2685, 8755
Hayward, M. D. 48, 2770, 2771, 3680, 8820
Hazra, R. 2051
Heale, J. B. 396, 2127
Healy, W. B. 6966
Heard, T. G. 2504

Hearn, A. B. 6039, 6040
Heather, W. A. 4181
Hecker, R. J. 2907, 5253, 7123, 8964, 9854, 9881
Hedeşan, G. 6267
Hédou, J. 9757
Hedrick, P. W. 1662, 5610
Heemert, C. van 2621
Heeney, H. B. 3001
Hefendehl, F. W. 852
Hegnauer, R. 900
Heimans, J. 8388
Heimburger, C. C. 4643, 5473
Heinis, J. L. 1376
Heinrich, B. 68
Heinrich, J. 1041
Heinz, D. J. 4470
Heit, C. E. 3120
Helgason, S. B. 7837
Helgeson, J. P. 4496
Helm, J. 3623, 3980
Helm, J. H. 9632
Helm, J. L. 1862, 8665, 8717
Helmerick, R. H. 5253
Helsel, Z. R. 9695
Heltmann, H. 5339
Hely, F. W. 403, 2824
Hempel, K. 8850
Hemphill, D. T. , Jr. 745
Hemsy, V. 2154, 2155, 2156, 5570, 5580, 6153
Henderson, H. M. 1546
Henderson, J. 693
Henderson, R. G. 522
Henderson, R. G 3806
Henderson, W. R. 6399
Hendrix, J. W. 3821, 7150
Heneberg, R. 9289
Heneen, W. K. 2782, 2783
Henegaru, O. 7548
Henis, Y. 846
Hennessy, C. M. R. 558, 2986, 5317
Henninger, M. R. 428
Henriksen, K. 8087
Henshaw, J. N. 9523
Henson, L. 1995
Hentrich, W. 7838
Hepburn, W. R. 1122
Hepler, P. R. 6094
Hepting, L. 4941
Hera, C. 4035, 4051
Herbek, J. 83, 7671
Herbek, J. E. 2491
Herbek, J. H. 2723
Herbert, L. P. 9841
Herbert, S. 6538
Herczegh, M. 9566
Herdam, H. 3618
Hermant, P. 9829
Hermsen, J. G. T. 116, 422, 2850, 4444, 6999
Hernandez, T. P. 3174
Herner, R. C. 9249
Herold, M. 7976
Herr, J. M., Jr. 9150
Herr, L. J. 7124
Herrendörfer, G. 9344
Herrero, J. 2198, 2203, 2207, 6304
Herrmann, F. 2423
Herron, J. W. 827
Herzog, Z 3844
Hesketh, J. S. 8503
Heslop-Harrison, J. 6530, 8411
Heslop-Harrison, Y. 6530
Hess, D. 4755, 4775, 4805
Hess, W. M. 2810
Hesseltine, C. W. 8726
Heszky, L. 1179, 1180, 1195, 4111, 5135, 5155, 7919, 7938, 8816, 8819
Heu, M. H. 311, 5078
Heuch, I. 9327
Heuver, M. 3365
Hewett, P. D. 1128
Hewstone M., C. 9518
Heydendorff, R. 7377
Heygi, G. 2587
Heyne, E. G. 7684, 7716
Heywood, V. H. 9315
Hibbs, E. T. 447
Hibi, K. 4383
Hidalgo, L. 3084
Hidayat Ali 489, 6726
Hiesey, W. H. 4404
Hifner, K. 7771
Higgins, J. J. 1298
Higuita, M., F. 2353
Hijink, M. J. 5211
Hikida, H. R. 3196
Hilbebrand, D. C. 7510
Hildebrand, D. C. 532
Hilderbrand, E. S. 1881
Hilgeman, R. H. 631
Hilkenbäumer, F. 3866
Hill, K. 5563, 9278
Hill, R. D. 125, 2625, 4878
Hill, R. G., Jr. 5409
Hill, R. R., Jr. 1984
Hill, R. R. Jr. 3699
Hill, R. R., Jr. 8838, 8851
Hill, W. G. 7, 3268
Hille Ris Lambers, D. 8598
Hillel, J. 189, 6780, 9516
Himme, M. Van 8641
Hine, R. B. 2664
Hinkelmann, K. 4756
Hinson, K. 4054
Hinze, G. 4819
Hirane, T. 5267
Hirano, J. 3491
Hirano, T. 7878
Hiremath, B. N. 6459
Hiremath, K. G. 9010
Hironaka, R. 3718
Hirose, K. 3900
Hirose, T. 6121
Hirschhorn de Mazoti, E. 4983
Hirstova, J. 7705
Hirve, C. D. 4828
Hjelmqvist, H. 2913
Hla Myo Than 5043
Hlaváč, M. 9622
Hlaváčková, Z. 2969
Hlavička, A. 8546
Hnízdil, M. 7404
Hnízdilová, M. 7404
Ho Coy Choke 6646
Ho, K. M. 2692, 4347, 5966, 9624
Ho, R. 1531
Hoang, C. J. 5116
Hobson, G. E. 6712
Hochberg, N. 3111
Hochmut, R. 5480
Hocker, H. W., Jr. 5467
Hockett, E. A. 2683, 3617, 4342, 4346, 4997
Hodges, E. M. 3688, 3689
Hodges, H. F. 2711
Hodges, T. K. 6674
Hodossi, S. 8313
Hoefert, L. L. 500
Hoeser, K. 113
Hoeven, A. P. v. d. 3977
Hof, J. Van't 554
Hoff, B. 4979, 6441
Hoffman, E. N. 3615
Hoffman, J. C. 808
Hoffmann, F. 4758
Hoffmann, I. 3771
Hoffmann, M. 4707, 8309
Hoffmann, W. 8020
Hogenboom, N. G. 1571, 1572, 5530, 5531, 9346
Hogg, J. W. 853
Hoitink, H. A. J. 1598
Hojito, S. 364
Holden, J. H. W. 7965
Holgate, M. E. 538
Holl, F. B. 7508
Holle, M. 6353
Holman, B. 817
Holovlaská, H. 4529, 8294
Holovlaský, J. 2629, 9001
Holub, J. 892
Home-grown Cereals Authority 7663
Homola, I. 3204
Hončariv, R. 2355, 8382
Hondelmann, W. 8650, 9218
Hong, E. H. 4053
Hong, S. B. 3051, 4600
Honjo, T. 7368
Honjyo, T. 7368
Honma, A. 5110
Honzak, D. 9100
Hooker, A. L. 2493, 4330, 8721, 8725
Hooker, W. J. 2860
Hooks, R. F. 4430, 7240
Hoover, C. D. 8487
Hoover, W. J. 9428
Hoppe, B. 8392
Höppner, E. 6018
Horák, J. 6372
Horánszky, A. 7655
Horber, E. 4818
Hörberg, Y. 1116, 1887
Horigome, T. 4525
Horn, E. 7333
Horn, G. C. 1975
Horn, N. L. 3065
Horn, W. 2457
Hornby, C. A. 3184
Horne, F. R. 4796
Horner, C. E. 1352, 2972
Horner, E. S. 3578, 8666
Horner, H. T., Jr. 7202
Hornsey, K. G. 512
Horodyski, A. 5311
Horovitz, A. 1219
Horovitz, S. 9147
Horsch, R. 833
Horticultural Research Institute of Ontario 4144
HortScience 2291
Hortyński, J. 3062, 8196
Horváth, E. 8112
Horváth, J. 7472
Horváth, L. 1006
Horváth, M. 6522
Hoseney, R. C. 5752
Hoser-Krause, J. 6366
Hoser-Krauze, J. 8276
Hoshikawa, K. 4387
Hoskinson, P. E. 3754
Hosoda, K. 1811
Hosoda, T. 6358
Hosokawa, S. 3231, 3232, 4476, 5573, 6453, 6454, 9288
Hossain, S. M. A. 3653
Hostettler, K. 3375, 3376
Hotta, Y. 32, 3937
Hou, H. H. 9314
Hough, L. F. 608, 1398, 3002, 7246, 8133
Hovhannessian, V. V. 4213
Hovhannisyan, M. H. 4208
Hovhannisyan, V. V. 4213, 4236
Hovin, A. W. 8826, 9702
Hovinen, S. 5008
Howard, C. M. 5415
Howard, H. W. 2867, 6006, 9775
Howard, R. A. 654
Howard, R. L. 5549
Howell, G. S. 2239
Howell, R. K. 9737
Howlett, B. 6530
Hoyert, J. H. 1328
Hoyle, B. J. 5490
Hraška, Š. 2579, 3392, 4247, 5767, 6727, 7747
Hrcek, L. 3111
Hristov, K. 4991
Hristov, L. 4607
Hristova, J. 2332
Hristova, P. 4991
Hron, R. 1010, 3301, 3306, 3310
Hruška, L. 3722
Hsi, D. C. H. 1373
Hsieh, J. H. 2931, 9888
Hsieh, K. C. 6117
Hsieh, R. H. 2932, 9888
Hsieh, S. C. 5082
Hsieh, S. T. 2937
Hsu, C.-C. 4168
Hsu, C. C. 4168
Hsu, T. H. 2745
Hu, M. L. 9450
Huag, A. 4239
Huang, C. H. 64
Huang, C. -h. 64
Huang, C. H. 5036
Huang, C. S. 2745
Huang, H. L. 6513
Huang, T. C. 4632
Huang, T.-C. 4632
Huart, R. 873
Hubbeling, N. 9280
Huber, W. 3783, 3831
Hübner, R. 3569, 7907
Hudec, J. 5551
Hudzik 1013
Hue, M. -H. 311
Hughes, H. 4608
Hughes, M. A. 2815
Hughes, P. 5025
Hughes, W. G. 2575
Hühn, M. 2492, 6658
Huijsman, C. A. 3747, 4448, 7037
Hulewicz, T. 3062, 8196
Hulpoi, D. S. 10030
Hulpoi, N. 4066, 5572
Hume, D. J. 4059
Hummel, A. 647
Humphrey, J. G. 7394
Hung, C. C. 8056
Hungerford, W. E. 9729
Hunnius, W. 8893
Hunt, I. V. 2758, 2772
Hunt, O. J. 397
Hunt, W. F. 3798
Hunter, R. B. 244, 1873
Hurd, E. A. 3414, 3415, 7610
Hurd, P. D., Jr. 3166
Hurtado M. , J. R. 561
Hurter, N. 8164
Huruta, M. 4388
Husain, A. 5233
Húska, J. 153
Hussain, M. K. 5896
Hussein, F. 6245
Hussein, H. A. 7101
Hutchinson, A. 4145, 4147
Hutchison, D. J. 2224
Hutton, E. M. 2004, 3223, 10138
Huyen, N. D. 4173
Huyskes, J. A. 1550, 2316, 4673, 4674, 7407
Hwan, S. S. 2931
Hwang, C. J. 5116
Hycka, M. 1981
Hyde, B. B. 9572
Hyland, H. L. 4798
Hymowitz, T. 1616, 2990, 3233, 6994, 9295, 10147
Hýža, V. 3483, 5755, 9482
I, D. K. 3051, 4600
I, D. U. 2600
I, J. H. 6922, 7879
I, J. I. 5299
I, S. K. 7350, 7879
Iacob, M. 3926
Iannelli, P. 6862
Ibarz, P. 2203
Ibragimkhodzhaeva, M. P. 9811
Ibragimov, A. P. 2062
Ibragimov, Sh. 7065
Ibragimov, Sh. I. 7073
Ibragimov, Sh. N. 8911
Ibrahim, A. F. 1900, 7841
Ibrahim, A. N. 468, 469
Ibrahim, H. 3999, 7702
Ibrahim, I. A. 6469, 9679
Ibrahim, I. K. A. 6469, 9679
Ichii, M. 4863
Ichikawa, S. 2452, 3453
Idriceanu, A. 6839
Ifteni, L. 2200
Iftimie, D. 6254
Iftode, G. 3928
Iglesias, A. 3540
Ignasiak, T. 388
Ignat, V. 3882
Ignatov, B. 2838
Igue, T. 5395
Ihm, P. 9350
Ihrke, C. A. 1855
Iiyama, K. 1048
Ijaz Ahmad Dar 7894
Ikeda, H. 5947
Ikeda, I. 3900

Ikegami, S. 2455
Ikehashi, H. 5106
Ikramov, Yu. 7069
Iksanov, M. 1265, 1271, 6034
Iksanov, M. I. 2053
Ikushima, T. 2611, 7723
Ilami, M. 2113
Il'enko, T. S. 5329
Ilicevici, S. 3561
Il'ichev, G. A. 3534
Il'ichev, S. S. 9423
Iliescu, E. 5436
Iliescu, H. 3838, 4515
Il'in, G. S. 523, 2112, 8063
Il'ina, G. K. 6705, 8566
Il'ina, M. G. 8892
Il'inova, G. S. 1447
Illarionova, N. P. 3027
Ilyaletdinov, Sh. N. 6106
Il'yazova, È. I. 9474
Ilyin, G. S. 523, 2112, 8063
Im, H. B. 7159
Imamaliev, A. I. 8008
Imamaliyev, A. I. 8008
Imrie, B. C. 3257
Inagaki, H. 5597
Inch, A. J. 4684
Indian Agricultural Research Institute 452
Indian Farming 5675
Indrea, D. 9277
Indreaș, A. 3923, 4628
Information Bulletin, Centro International de Mejoramiento de Maiz y Trigo 9555
Information Bulletin of the Near East Cereal Improvement and Protection Project 6690
Information Series, Department of Scientific and Industrial Research, New Zealand 7609
Ingham, J. L. 2495
Ingle, J. 6495
Ingversen, J. 4215, 7846
Iñigo, R. M. 2154, 2155, 2156, 5570, 5580, 6153
Innes, N. L. 2878
Innocenti, A. M. 3273
Inoue, J. 4383
Inouye, J. 4383
Inozemtsev, V. 9688
Inozemtsev, V. V. 2767, 3678, 9687
Institut de Recherches Agronomiques Tropicales et des Cultures Vivrières 1685
Institut de Recherches du Coton et des Textiles Exotiques 2043
Institut des Sciences Agronomiques du Burundi 8474
Institut po Pamuka, Chirpan 8371
Institut Technique Français de la Betterave Industrielle 6093, 9853
Institutet för Skogsförbättring 1483, 8253
Instituto de Investigação Agronómica de Angola 3322
Instituto Nacional para la Producción de Semillas Selectas 2839
Instytut Hodowli i Aklimatyzacji Roślin 7624
Interieri, C. 3014
International Atomic Energy Agency Bulletin 4382
International Rice Commission Newsletter 1928
International Rice Research Institute 5033, 5907
International Working Group on the European Corn Borer 2673
Ioannou, A. 9761
Iobashvili, D. M. 1459
Ionescu-Cojocaru, M. 7760, 7764
Ionescu, E. 3913
Ionescu, M. 6835, 9274, 9309
Ionescu, P. 3104
Ionescu-Sisești, V. 7114
Ioniță, C. 7273
Ioniță, I. 10040
Ionushite, R. 4424
Iordanskiĭ, A. B. 891
Iordansky, A. B. 891
Iovva, E. P. 5532, 6405
Irani, B. N. 209
IRCT 2043
Iriarte, B. J. R. 4440
Irikura, Y. 2018
IRRI Reporter 5113, 9677
Irvine, J. E. 492, 493
Isa, A. L. 1948
Isaev, S. I. 3349
Isaeva, E. K. 1768, 9424
Isakov, Ya. I. 1140, 5895
Isbandi, D. 8408
Ishchenko, L. A. 9085
Ishikawa, H. 2292
Ishisaka, W. 4989
Ishizaka, N. 6020
Ishizawa, S. 5960
Ishwar Pal Singh 9929
Islam, A. S. 482
Ismail, A. A. 1828, 1861
Ismailov, N. 1281
Isom, W. H. 131, 9411
Ispettorato Provinciale dell'Agricoltura, Brescia 157
Israel, P. 5066, 7896
Issa, E. 3605
Issar, S. C. 6488
Istatkov, S. 4950
Istituto di Agronomia Generale e Coltivazioni Erbacee 5645, 7595
Istituto di Genetica 7135, 8432
Istituto di Orticoltura e Floricoltura 6329, 9192
Istituto Scientifico Sperimentale per i Tabacchi 8052
Iswaran, V. 6466
Itagaki, R. 9890
Itagaki, T. 3982
Ito, H. 4006
Ito, K. 4014
Ito, P. J. 6419
Ito, S. 3894
Iturrioz, M. 2198, 2207
Ivakhnenko, A. N. 7827
Ivanchenko, E. A. 9782
Ivanchenko, G. Z. 9782
Ivănescu, M. 6836
Ivanjuk, L. I. 1129, 1905
Ivannikov, V. F. 4204, 8550
Ivanov, A. 4607, 9365
Ivanov, A. I. 348, 2790
Ivanov, A. P. 8644
Ivanov, G. 5658
Ivanov, Ĭ 3069, 3098, 3099
Ivanov, J. 3099
Ivanov, N. R. 7954
Ivanov, P. 4512
Ivanov, S. 3116
Ivanov, Y. 3069
Ivanov, Yu. A. 4257
Ivanova-Bandžo, K. 8840
Ivanova, K. A. 2245
Ivanova, N. E. 969
Ivanova, N. S. 3778, 7121
Ivanova, R. M. 1350, 2970, 8996
Ivanova, S. V. 6766
Ivanova, T. D. 6395
Ivanyuk, L. I. 1129, 1905
Ivanyuk, V. G. 10123
Ivanyukovich, L. K. 6901
Iveković, V. 9108
Iwakiri, B. T. 6241, 6242
Iwanejko, M. 1294, 5701, 5702
Iwasaki, F. 2136, 8272
Iwata, E. 5142
Iwata, N. 319, 6919
Iwazawa, K. 6283
Iyemperumal, S. 3759, 5217
Iyer, R. D. 2891
Iyer, S. K. 1285
Izquierdo Tamayo, A. 4493
Izsáki, Z. 7438
Izumi, Y. 3894
Izumiyama, Y. 4472
Izunidate, M. 5108
Izuno, T. 4289
Izzo, R. 3669
Jaarsma-Frankena, A. 1634, 4072
Jabłoński, M. 5311
Jackiewicz, A. 1408, 1416, 1417, 7262
Jackman, R. H. 369
Jackobs, J. A. 9736
Jackson, B. R. 5067, 5076
Jackson, E. B. 2680, 2684
Jackson, G. 7288
Jackson, J. F. 8403
Jackson, L. K. 6237
Jackson, M. 1673
Jacobs, M. 873
Jacobsen, B. 9764
Jacquemin, G. 671, 10051
Jacquinot, L. 7864
Jacquot, M. 5088, 6925
Jadas-Hecart, J. 358
Jadhav, A. S. 4612, 5543, 5593, 8109
Jadhav, T. K. 5548
Jagannath, D. R. 3477
Jagannath, M. K. 5886, 9582
Jagathesan, D. 491
Jahn-Deesbach, W. 2581, 2582
Jahn, O. 632, 633
Jai Rup Singh 4530
Jain, H. K. 117, 1260, 4795, 4801, 7698
Jain, K. K. 1647
Jain, N. K. 4730
Jain, O. P. 477
Jain, P. C. 1105
Jain, R. P. 5864
Jain, S. K. 1962, 6784
Jain, S. N 6897
Jaiswal, P. L. 7285
Jaiswal, V. S. 2080
Jakhmola, S. S. 816
Jakob, K. M. 7549
Jakobey, I. 8021
Jakubciner, M. M. 3502
Jakubiec, J. 8538
Jamaleeva, A. A. 4219
James, G. L. 5242, 5243
James, N. I. 1307, 2087
Jana, A. K. 6062
Jana, M. K. 6061, 6921
Jana, R. K. 4390
Jana, S. 12, 2688, 2689, 3260
Janardhan, A. 290
Janarthanan, R. 10174
Jancey, R. C. 2637
Janick, J. 608, 1398, 3871, 4114, 4608, 4610, 8197
Janjatović, V. 3462
Janjić, V. 8146
Janke, G. D. 8639
Janke, J. C. 8563
Jankó, B. 7655
Jannelli, P. 1206
Jánossy, A. 913, 1115, 5661, 8748
Janota, M. 262
Jansen van Rensburg, H. 7488
Janson, H. F. 3861
Jantzen, J. C. B. 3671
Janýška, A. 6346
Jaquinet, A. 1465
Jaranowski, J. 1728
Jarchuk, T. A. 9602
Jarebica, D. 8163
Jarev, T. 10042
Jarosh, N. P. 9675
Jarvis, J. L. 1387
Jasa, B. 3931
Jaschkowa, V. 4560
Jaskonis, J. 4089, 5595
Jassem, B. 510, 5252, 5262, 9858
Jassem, M. 5252, 6100
Jastrzebski, K. 2856, 5191
Jaswal, S. V. 9013
Jat, R. L. 3601
Jatala, P. 2871
Jauhar, P. P. 287, 5880
Jauhari, O. S. 1461, 1466
Javůrková, V. 892
Jawanda, J. S. 5399
Jaworska, K. 5701, 5702
Jayakar, S. D. 7660
Jayakaran, M. 8119
Jayaprakash, R. K. 8057
Jayaraj, S. 9839
Jayaramaiah, H. 284
Jayarami Reddy, A. 7190
Jaynes, R. A. 8237
Jecheva, J. 2309, 4669
Jeffers, D. L., Jr. 10151
Jeffers, R. M. 673, 5469
Jelenkovic, G. 2762, 3034, 4605
Jellum, M. D. 222, 237, 6801
Jemmett, J. L. 5876
Jenkins, G. 4267, 7666
Jenkins, J. N. 2500
Jenkins, S. F., Jr. 6399, 9891
Jennings, D. L. 3050
Jennings, P. R. 347, 3650
Jensen, H. J. 1742
Jensen, K. F. 1508
Jensen, N. 7702
Jensen, N. F. 2677, 3374
Jensen, S. D. 9606
Jensen, S. G. 1044
Jensma, J. R. 1355
Jeruzel, G. 7738
Jesana, C. C. 494
Jeske, J. 8022
Jeszenák, G. 7438
Jetschewa, J. 727
Jevtić, S. 3628
Jeżewski, Z. 1511
Jha, M. P. 2590, 6772
Jiménez, H. 9147
Jin, M. S. 4053
Jindal, J. K. 7489, 10139
Jindla, L. N. 819
Jindra, J. 8383, 8384
Jinks, J. L. 10, 7637
Jiráček, V. 5614
Jiřík, J. 6362
Jo, J. H. 2600
Jo, Y. K. 3991
Jodon, N. E. 5038
Jogi, B. S. 9929
Joginder Singh 4285, 5810
Johansen, R. H. 3724, 3725
Johansson, N. 6732
Johari, R. P. 3480
John, C. A. 2330
John Innes Institute 7229, 9933
John, M. K. 7293
John, V. T. 4398, 5057
Johns, D. E. 49
Johnson, A. G. 739, 3970, 3971, 3972
Johnson, B. L. 2609, 5795
Johnson, C. 8746
Johnson, D. L. 754
Johnson, D. R. 3577
Johnson, E. C. 4297
Johnson, G. B. 43
Johnson, H., Jr. 4989
Johnson, J. A. 5759
Johnson, J. W. 8782, 9454
Johnson, L. A. S. 7348
Johnson, L. C. 10061
Johnson, R. 178, 182
Johnson, V. A. 103, 107, 152, 168, 1904, 5070, 8604, 9405
Johnsson, H. 8256
Johnston, A. 3718
Johnston, R. E. 3159
Johnston, T. H. 5038
Johnstone, R. C. B. 4646
Johri, B. M. 9339
Jokela, J. J. 5479
Jokl, E. 5158
Jones, A. 7041, 7045
Jones, C. D. 7104
Jones, D. A. 2002, 2409
Jones, D. G. 1799
Jones, D. I. H. 357
Jones, F. G. W. 4188

Jones, G. B. 2878
Jones, H. D. 387, 4430
Jones, I. K. 159
Jones, J. L. 2117
Jones, J. P. 2343, 5535, 5699, 5788, 6424
Jones, P. 1127
Jones, R. 7855
Jones, R. K. 1106
Jones, R. W. 7334
Jong, B. de 5869
Jong, H. de 5195, 5932
Jong, K. U. 4053
Jong, S. K. 3751
Jonsson, A. 1519
Jönsson, R. 1358, 3966, 5300, 9902
Joppa, L. R. 2518, 2557, 8583, 9448
Jordan, D. 1033
Jordan, J. M. 4430
Jordan, V. W. L. 10014
Jordović, M. 9114
Jorgensen, E. 687
Jorgensen, J. H. 6889
Jos, J. S. 3801, 6108
Jose, A. I. 5325, 6170
Josefsson, E. 549, 5498, 6359, 9906
Joseph, J. 6063, 7100
Josephson, L. M. 2655, 6844, 8730
Joshi, A. B. 5711, 5880
Joshi, B. C. 3429, 3454, 3542, 4272
Joshi, D. K. 3460
Joshi, L. K. 76, 499
Joshi, L. M. 167, 170, 174, 175
Joshi, M. G. 4220, 8601
Joshi, M. S. 5748
Joshi, N. V. 7686
Joshi, P. 8088
Joshi, R. C. 4365
Joshi, R. K. 1639, 1640
Joshi, S. N. 2166, 3208, 4521, 6460, 6483, 7183, 8094
Josy Joseph 9838
Jouanneau, J. -P. 528
Jouanneau, J. P. 1334
Joubert, A. I. 5393
Joubert, G. B. 4207
Joubert, G. D. 4835
Joubert, T. G. la G. 3961
Joudrier, P. 6703
Journal of the Australian Institute of Agricultural Science 3695, 5132, 5148, 5149, 6952
Jouve de la Barreda, N. 3426
Jovančević, R. 3005, 3052, 7245
Jovanović, B. 978
Jovanović, M. 3125, 3126, 7252
Jowett, D. 1137
Joy, R. J. 3690
Józefaciukowa, W. 1520
Józsa, L. 5027
Judy, T. M. 5602
Juhász, K. 6996
Juliano, B. O. 5069, 5071, 5925, 5926
Julien, J. -P. 605
Juncu, A.-M. 3501, 5875, 7826
Juneja, S. L. 5095
Jung, B. K. 2600
Jung, G. A. 6972
Jürgens, U. 2582
Jurubiță, J. 5437, 7328
Juska, F. V. 9693
Juste, C. 9131
Jute Bulletin 1256
Jüttersonke, B. 7430
Jůza, J. 3717
K. Roemer 6624
Kaan, F. 7612
Kabalkina, N. A. 4263
Kabaria, M. M. 4521, 6460
Kable, P. F. 3892
Kábrt, B. 5719
Kachanova, V. A. 8700
Kachecheba, J. L. 5234
Kacprzak, M. 5403
Kaczmarek, J. 4269
Kadam, B. S. 3656
Kadinov, B. 2503
Kadyan, A. S. 2606
Kae, B. M. 5299
Kahler, A. L. 266, 1814, 5011, 5012
Kain, I. 5977
Kais, A. G. 3139, 3947
Kaiser, C. J. 1747
Kaiser, W. J. 7517
Kaĭsyn, F. Ya. 9489
Kaizuma, N. 3655, 3658, 5108, 5578, 5579
Kaji, T. 6358
Kajjari, N. B. 4369, 5031, 5813, 9663
Kak, S. N. 9334
Kakiuchi, N. 3894
Kalacheva, L. I. 7383
Kalacheva, L. S. 5493, 6350
Kalam, J. 269
Kalam, Yu. 269
Kalashnik, N. A. 4214, 6719
Kalashnik, N. S. 7870
Kalda, T. S. 6427
Kaldy, M. S. 2675, 3738, 6828
Kalekar, A. R. 6909
Kaley, D. M. 1247
Kalfov, S. 4449
Kalia, H. R. 411, 6896
Kalikinskiĭ, A. A. 7854
Kalin, S. 2419
Kalina, T. 4022
Kalinichenko, R. I. 9097, 9967
Kalinin, N. I. 6669
Kalinina, I. P. 6187
Kalinina, N. P. 1629, 4742, 7500
Kalinkova, G. 3383
Kallak, Kh. I. 3282
Kalloo 2385
Kálmán, L. 6841
Kalnin', L. Ya. 2659
Kalode, M. B. 7896
Kalra, Y. P. 1089, 1090
Kalsy, H. S. 4309
Kaltsikes, P. J. 5727, 6500, 6718, 6761, 7712, 7718, 8654
Kalvoa, V. 5559
Kalyanaraman, V. M. 3195
Kalyanasundaram, P. 8186
Kamal, S. A. 1829
Kamala, T. 9753
Kamalanathan, S. 5513
Kamaluddin Ahmad. 2232
Kamel, K. F. 2376
Kamel, M. 468, 469
Kamel, S. A. 468, 469
Kamelina, A. M. 2603
Kamenova, A. 4975
Kamenova, V. 3176, 3848
Kamenskiĭ, V. V. 8614
Kameraz, A. Ya. 1246, 5196, 5198
Kameya, T. 4667
Kamijima, O. 7887
Kamilo, A. V. 5263
Kamilova, M. Kh. 3765
Kamimura, S. 4014
Kamińska, J. 6876
Kamińska, M. 8154
Kaminskiĭ, A. M. 8334
Kamins'kiĭ, O. M. 9269
Kamio, M. 1811
Kamischew, N. 9445
Kamishev, N. 9445
Kamkova, M. 3728
Kammacher, P. 6133
Kamyshev, N. 9445
Kanaeva, N. V. 9971, 9975
Kanash, S. S. 7049
Kanchaveli, L. A. 9087
Kandasamy, R. 9264
Kandaswamy, T. K. 5445, 5884, 6167, 10174
Kandaurov, V. I. 1772, 3400, 9490
Kandaurova, Ye. F. 9959
Kandelaki, G. V. 8564, 8567
Kandeva, R. 3931
Kaneda, C. 5080
Kaneko, K. 3707
Kang-chien Liu 6023
Kang, J. C. 5116
Kang, M. S. 8722
Kangra, I. S. 3776
Kanmani, B. N. 7717
Kannenberg, L. W. 244, 1873
Kannian, J. 5884
Kan'shina, M. V. 9123
Kantarev, I. 666, 10032
Kantarew, I. 10032
Kanthamani, S. 8075
Kantor, T. S. 646
Kantzes, J. 2042
Kantzes, J. G. 3219
Kanwar, J. S. 10025
Kanwar Singh 5306
Kao, D.-L. 5929
Kao, T. L. 5929
Kapás, S. 7625
Kapeller, K. 7203, 8123
Kapetanović, N. 9109
Kapitsyn, N. V. 4477
Kaplan, A. A. 5670
Kaplan, I. S. 5670
Kaplunova, R. I. 8935
Kapoor, A. C. 9594
Kapoor, H. C. 8316
Kapoor, H. K. 9896
Kapoor, I. J. 1421
Kapoor, K. N. 834
Kapooria, R. G. 4396
Kappel, W. 6803
Kappelman, A. J., Jr. 1264
Kapralova, N. P. 4461
Kaptyushina, G. A. 1018
Karacharova, L. P. 3013
Karaïvanov, G. P. 1848
Karam Khan Baluch 6462
Karam Khan Kaleri 6461
Karaman, L. 6095, 6103
Karami, E. 1283
Karamkhudoev, L. 3397
Karamysheva, V. I. 585, 3860, 6196
Karapanova, T. 4959
Karapetian, W. K. 4240
Karapetyan, V. K. 4240
Kararah, M. A. 6049, 6050
Karavla, J. 3134
Karchi, Z. 761
Karchyauskaĭte, N. S. 3206
Kardaeva, N. S. 10086
Kārdžieva, N. 3242
Karikari, S. K. 5177, 6246, 6486, 9999
Karim Bakhsh Malik 8035
Karivaratharaju, T. V. 7889
Kariya, K. 4668
Karlin, S. 6517
Karmacharya, B. L. 6764
Karnaukhova, L. A. 1794, 4892
Karolini, W. 1540
Karpechenko, G. D. 9325
Karpenko, A. S. 2287
Karpilov, Yu. S. 7641
Karpov, G. K. 9082
Karpovskaya, E. V. 7783
Karsai, I. 8748
Karschon, R. 3133
Karstadt, D. 3846
Kartalov, P. 768, 3170
Kartalow, P. 768
Kartelev, V. G. 1470
Karunakaran, K. 1154, 8786
Karytskı, M. S. 9862
Kasahara, F. 3498
Kasano, H. 5597
Kasatkina, L. I. 2523
Kasatkina, N. N. 5909
Kasem Suksatan 7571
Kasetsart University 7569
Kasha, K. J. 2692, 4347, 5966, 8744, 8745, 9624
Kashina, E. N. 1368
Kashio, T. 3465
Kashyap, R. S. 1637
Kask, K. 9508
Kašparová, J. 1569
Kasperbauer, M. J. 2111
Kasprzyk, M. 2354
Kassem, A. A. 3490
Kassrawi, M. 6282, 7321, 8217
Kas'yanenko, O. I. 9094
Kas'yanova, L. A. 6389
Kataoka, K. 325
Katarki, B. H. 6036, 6037, 7988
Katayama, T. 3661
Katayama, T. C. 4389
Katayama, Y. 6121
Katerov, K. 659, 5422
Katin-Yartsev, L. V. 9756
Katiyar, D. S. 200, 6783
Katiyar, O. P. 5786
Katterman, F. R. H. 4455, 7996, 8917
Katti, C. P. 6459
Katyal, S. L. 9053
Katznelson, J. 1207, 2811, 8861
Kauffeld, N. M. 4412
Kauffman, H. E. 338, 5059
Kaul, A. K. 3666, 4085, 5915
Kaul, B. L. 29, 1670, 2620, 4106, 9334
Kaul, D. L. 5520, 5525
Kaul, M. L. H. 7545
Kaur, J. 7543
Kaushal, P. K. 5309
Kaushik, C. D. 9004
Kavacs, G. 9335, 9389
Kavats, G. É. 4099
Kavats, G. E. 9335
Kavats, G. É. 9389, 9626, 10155
Kaveriappa, K. M. 304
Kavineva, V. M. 8366
Kawabata, S. 4405, 7910
Kawaguchi, I. I. 9720, 9721
Kawaguchi, I. I 9722
Kawai, T. 6922
Kawakatsu, M. 5245
Kawano, K. 676, 5089
Kawase, K. 3891
Kay, J. G. 6887, 6888
Kazachenko, R. F. 9886
Kazakova, A. A. 3955, 10077
Kazankov, A. F. 235, 9587
Kazantsev, I. Ya. 1501
Kazimierska, E. M. 401, 3705, 5980
Kazimierski, T. 405, 406, 3705, 5980
Kaz'min, G. T. 6211, 7005, 8132
Kałoń, J. 5413
Keck, R. W. 6674
Kedar, N. 759, 1553, 2324
Kedraŭ-Zikhman, A. A. 3533, 9362, 9534
Kedrov-Zikhman, O. O. 3533, 9362
Kedrova, L. I. 8646
Keeling, B. L. 3238
Keen, N. T. 833, 3240, 7091
Keep, E. 6186, 7294
Kehr, W. R. 5156
Keiding, H. 1481
Keith, D. G. 1126
Keith, E. S. 2081
Keivani, A. 2948
Keleg, F. M. 3842
Kellner, E. 5158
Kelly, W. C. 6390
Kemble, R. 2506
Kemp, J. D. 4496
Kempanna, C. 6900
Kempeneers, L. 4913
Kempton, D. P. H. 3973
Kendelić, V. 1851, 6722
Kenefick, D. G. 8746
Kennedy, D. M. 649
Kenworthy, J. B. 3124
Kenworthy, W. J. 9291
Kepner, R. E. 6292
Kerber, E. R. 2535
Kern, H. 7901
Kerr, E. A. 4155, 6857, 6858
Kessel, R. 2846
Ketel, E. J. 9698
Ketring, D. L. 563
Keum, C. S. 7350

Keusch, F. 2442
Keydel, F. 5741, 5746, 8570
Keyser, B. de 805, 8269
Khaberman, È. 2037
Khablova, T. G. 1059
Khachatrian, G. G. 4194
Khachatriyan, S. S. 8226
Khachatryan, G. G. 4194
Khachatryan, G. H. 4194
Khachatryan, S. S. 3106, 6288, 8226
Khadr, A. S. 5227
Khadr, F. H. 3449, 3490
Khadzhinov, M. I. 3591
Khafisov, R. N. 7432
Khafizov, R. 782
Khaĭchenko, L. G. 3443
Khaĭkevich, H. 47
Khaĭlenko, N. A. 3432
Khailenko, N. A. 3432
Khaire, V. M. 2754
Khaitova, L. T. 10164
Khajinov, M. I. 3591
Khakimova, A. G. 6739, 9478
Khalf-Allah, A. M. 4685
Khalifa, M. 2686
Khalifa, M. A. 9411
Khalikov, A. S. 1113
Khalil, A. R. 5225
Khalil, M. A. 5226
Khalil, M. H. 3213
Khalil, M. M. 5115
Khalilov, M. R. 6632
Khalin, G. A. 1405, 4576
Khalitov, A. Kh. 91
Khammatova, I. G. 7803
Khan, A. H. 464, 2551, 3760, 3761, 3762, 6723
Khan, A. M. 8273
Khan, A. W. 5712
Khan, M. A. 243
Khan, M. N. A. 5759
Khan, M. N. U. 5712
Khan, S. H. 8408
Khan, T. N. 2397
Khandekar, M. P. 5922
Khanduja, S. D. 7318
Khangan, A. S. 9870
Khangura, B. S. 9917
Khanin, V. F. 9071
Khanna, A. N. 2679
Khanna, K. R. 555, 7435, 10108
Khanna, R. 3467
Khare, M. N. 815, 4730
Kharitonova, E. N. 6225
Kharitonova, R. D. 724
Khasanov, O. Kh. 8839
Khasanova, M. 5254
Khatri, H. L. 823
Khatri, S. R. 2512
Khehra, A. S. 4874
Khera, M. S. 4323
Kheradnam, M. 1602, 9312, 10141
Khertseg, M. 9566
Khesin, R. B. 1660
Khibibrakhmanova, N. È. 4807
Khidir, M. O. 1360, 6163
Khirov, A. A. 1514
Khismatullin, A. G. 7742
Khizhnova, V. V. 1291
Khlebov, P. I. 1064
Khodyrev, N. G. 2545, 3443, 8565, 8593
Khodzhaakhmedov, Yu. Kh. 7052
Khodzhimuradova, R. Kh. 5829
Khokhlov, S. S. 4952, 5615, 8412
Khondroyani, M. D. 4311
Khoo, U. 1867
Khorikov, O. S. 1772
Khor'kov, E. I. 2563, 4209
Khosh-Khui, M. 3250, 6481
Khoshoo, T. N. 800
Khosla, P. K. 6310, 8246
Khotyleva, L. V. 1069, 4759, 4860, 7620
Khrennikova, G. A. 9832
Khrimlyan, A. I. 7520
Khristov, K. 4991
Khristov, L. 3902, 4607, 6188, 6264
Khristova, Ĭ. 2332, 8310
Khristova, P. 4991
Khrobochek, È. 5485
Khudaĭberdyev, Ch. 7994
Khudaĭberdyev, N. D. 6629
Khudaĭkuliev, A. D. 3753
Khurana, A. D. 9515
Khurramov, F. 747
Khuseĭn, S. 7972
Khush, G. S. 5040, 5062, 5063, 5071
Khusseĭn, S. 7973
Khvatova, M. N. 6817
Khvostova, V. V. 984, 1117, 3433, 5670, 6719, 8350, 9415
Kiang, Y. T. 1534
Kidane, M. 2848
Kidrasov, M. Kh. 7389
Kidwai, M. A. 6488
Kieninger, H. 274
Kihara, H. 13, 190, 1027, 2415, 3334, 5625, 6384
Kihlman, B. A. 19, 4103
Kikani, B. K. 7686
Kikuchi, F. 318, 1150
Kilanowski, W. 8023
Kilby, M. W. 2239
Kilen, T. C. 9292
Killick, R. J. 2852, 3743
Killinger, G. B. 3676, 3689
Killion, D. D. 4954
Kim, A. V. 2068, 7050
Kim, C. S. 7350
Kim, J. H. 132, 4600
Kim, J. K. 3991
Kim, K. J. 3060
Kim, S. H. 3219
Kim, S. K. 2670
Kim, Y. H. 3051, 4600
Kimata, M. 3526
Kimati, H. 2367
Kimber, G. 120, 138, 1789, 2556, 7725
Kimenov, G. P. 7812
Kimura, A. 1510
Kimura, M. 1667, 2420, 3267
Kimura, O. 4719, 9256
King, J. E. 279
King, J. M. 7509
Kingma, G. 100
Kinkriashvili, M. G. 9270
Kinoshita, T. 1322, 5100, 5255, 6105, 6916
Kinzer, R. E. 1380, 1381
Kīpnīs, A. A. 9862
Király, Z. 1739, 4172, 7033
Kirby, G. C. 5608
Kireeva, L. K. 9183, 10035
Kirichenko, F. G. 109, 5700, 7677, 7682, 9504
Kirillov, A. F. 5441
Kirk, H. J. 2253
Kirkby, R. A. 5228
Kirkman, C. J. 3257
Kirkpatrick, J. B. 2276, 9188
Kirmani, M. A. S. 6776
Kirtbaya, E. 2918
Kirti Singh 5505
Kirtoka, I. H. 5827
Kirton Experimental Horticulture Station 8130
Kirvaĭtis, I. 4270, 6052
Kiryakov, K. 9550
Kir'yan, N. A. 1228
Kiseleva, S. D. 9744, 9745
Kishaba, A. N. 4681, 7410
Kishi, K. 5365
Kishore, H. 5206
Kisimova, L. 6383, 6409, 8117, 9242
Kislyuk, M. M. 8575, 8806
Kiss, Á. 988, 1384, 4224, 6714, 6715, 6753, 7713, 7714
Kiss, Á., Ifj. 1383
Kiss, E. 6083
Kiss, I. É. 5098
Kiss, I. L. 5144
Kiss, I. S. 1154, 8786
Kiss, T. 6087, 6995, 8024
Kissel', N. I. 6838
Kitahara, S. 5179
Kitami, K. 2865
Kitamura, T. 4475
Kitsno, V. E. 8357
Kittur, S. U. 7895
Kivi, E. I. 5008
Kiyokawa, I. 7278
Kiyosawa, S. 937, 1737, 1945, 3672, 5055
Kizilova, E. G. 9584
Klaffke-Lobsien, G. 6525
Klage, D. 4994
Klapal, J. 4659
Klarman, W. L. 1624
Klassen, A. J. 125
Klaudel, J. 1354
K"lbova, V. 5559
Klebesadel, L. J. 5946
Kleese, R. A. 4942, 8393
Klein, A. 874
Klein, H. 8353
Klein, R. M. 8406
Kleinhofs, A. 1895
Kliewer, W. M. 10043
Kligerman, I. I. 6297
Klimashevskiĭ, È. L. 6472
Klimashevsky, E. L. 6472
Klimova, A. P. 9824
Klinck, H. R. 9387
Kline, D. M. 5017
Klishchenko, V. P. 91
Klock, M. A. 8833
Klotz, L. J. 3040
Kloz, J. 5546
Klozová, E. 5546
Klyuchko, N. F. 3609
Klyuchko, P. F. 3550, 3552, 5815, 8715, 8716
Knaka Raju, A. 7468
Knapp, E. 6096
Knapp, F. W. 5407
Knavel, D. E. 794, 7376, 7420
Knight, C. W. 951
Knight, R. J., Jr. 5343, 6247
Knight, R. L. 6186, 8151
Knight, W. E. 402
Knipe, W. J. 2001, 8865
Knoke, J. K. 258, 2674
Knoth, R. 2423
Knott, D. R. 1807, 2516, 3430, 3693
Knowles, P. F. 5319, 9012
Knowles, R. P. 5948, 8815
Knowls, P. F. 2141
Knox, R. B. 5457, 6530
Knüpfer, H. 6803
Knyaginichev, M. I. 1633
Knyazyuk, V. I. 7726
Knysh, A. I. 121, 967
Koadè, V. S. 10036
Kobabe, G. 1730, 3974, 7399
Kobdysheva, L. V. 2525
Kobelev, Yu. K. 4306, 9545
Kobeleva, E. N. 8885
Kobeleva, È. N. 9607
Kobeleva, E. N. 9769
Koblitz, H. 2405
Kobyliansky, V. D. 1824
Kobylyanets, M. S. 4312
Kobylyanskaya, K. A. 78
Kobylyanskiĭ, V. D. 58, 1824, 3534
Kobzenko, V. 8289
Koch, B. 1254
Koch, C. A. 31
Koch, F. 513
Kochba, J. 2268, 5386
Kochel, R. J. 9809
Kocherezhkin, V. G. 4458
Kochergina, N. A. 1008
Kochhar, T. S. 3280
Kodama, Y. 5358
Koedjikov, C. 3476
Koedzhikov, Kh. 3476
Koelle, G. 73, 8055
Koeppe, D. E. 4326
Koeppe D. E. 8711
Koev, K. 3697
Koga, Y. 9671
Kogut, Ĭ. 5192
Kohel, R. 8503
Kohel, R. J. 461, 1278, 9807
Kohil, S. P. 2598
Kohlenbach, H. W. 39
Kohli, K. S. 820, 2389
Kohmoto, K. 5364
Køie, B. 4215, 7846
Koike, H. 9845
Kojić, L. 4080
Kojima, K. I. 1663
Kojima, K.-I. 6497
Kokovina, G. P. 9236
Koksharova, T. A. 3349
Kolarova, M. 5561
Kolbasina, E. I. 9494
Kolbe, W. 3866, 6203, 7304, 9149
Kolding, M. F. 970, 971
Kolelishvili, M. V. 9142
Kolesnikov, A. 145
Kolesnikov, F. A. 982
Kolesnikov, L. 8548
Kolesnikova, A. F. 5374, 6221, 9977
Kolev, D. 2822, 9445, 9446
Kolew, D. 9445, 9446
Kolhe, A. K. 8363
Kollmann, F. 3963
Kolomiets, I. A. 1402
Kolomiyets', I. O. 1402
Kolosha, O. I. 7735, 7758
Kol'tsov, N. K. 862
Kol'tsova, E. 1446
Kol'tsova, E. V. 9159
Kolyadkov, I. V. 6059
Komar, D. 2019
Komar, G. A. 1436
Komarov, B. L. 9769
Komarova, P. I. 9574
Komarova, R. A. 3957
Komenda, B. 4070
Komenda, K. 4070
Komoto, K. 5364
Komoto, N. 2455
Kompaneets, M. 3349
Kompatzki, C. C. 9279
Konar, R. N. 40
Konarev, A. V. 1771
Konarev, V. G. 996, 1614, 4219, 5756
Konarli, O. 6262
Kondakova, L. P. 2880
Kondarev, M. 3090, 4617, 5425, 5428, 6275
Kondra, Z. P. 7164
Kondrashova, K. V. 9251
Kondrashova, L. F. 2025
Kondratenko, F. P. 4271
Kondrat'ev, V. D. 7268
Konecsni, I. 1382
Kong, S. J. 4600
Konishi, T. 2690
Konno, F. 3264
Konokhova, V. P. 3652
Kononenko, A. I. 5739, 6725, 7726
Kononenko, A. V. 7999
Kononova, O. A. 7853
Konoplya, S. P. 1279, 7067
Konotop, A. I. 7821
Konov, V. 2519
Konova, L. 3712, 6449
Konovalov, F. Ya. 9585
Konovod, M. F. 10134
Konsala, J. 5750
Konstantinov, P. N. 3399
Konstantinova, A. M. 4416, 5962
Konvička, O. 2311, 7397
Konzak, C. F. 916, 8481, 9625
Kooistra, E. 6328
Kopcewicz, J. 2321
Koppányi, M. 6849
Koptev, N. N. 2835
Koptik, I. K. 3406, 4826, 8635
Korać, M. 8144
Koraiem, Y. S. 3711
Korak, Z. A. 9871
Körber, W. 399
Kordan, H. A. 1673
Kordziński, J. 2031
Korhonen, I. 1404
Korić, M. 5769
Korimath, M. S. 5813

Korneev, A. 776
Korneeva, E. M. 1295
Korneva, E. I. 9932, 10020, 10021
Kornienko, A. S. 4654
Korobeĭnikova, M. Kh. 3433
Korobets, P. V. 3101, 10035
Korobeynikova, M. H. 3433
Korohoda, J. 8802
Koroľskaya, G. A. 3527
Koromyslova, M. I. 4445, 9788
Kőrös, L.-né 7416
Korotaeva, S. R. 6870
Korotkova, A. P. 990
Korotkova, S. A. 5828
Korovin, A. I. 7643
Korsakov, N. I. 1614, 1617, 1618, 3200, 6463, 9943
Kort, J. 2034, 4447
Korzun, A. E. 2544, 8542, 8568, 8586
Koseva, D. 6489
Kosevska, O. 3880
Koshelenko, V. M. 9945
Koshevskiĭ, I. I. 8357
Koshkelova, E. N. 9824
Koshy, T. K. 7657
Kosmodem'yanskiĭ, V. N. 2924, 6109, 9892
Kosova, A. I. 9928
Kosseva, D. 6489
Kostandi, G. V. 4866, 8541
Kostecki, J. 8605
Kostenko, A. I. 109, 5700
Kostenko, I. I. 7735
Koster, H. 8844, 8845
Koster, R. 684
Kosterin, V. F. 4843
Kostina, K. F. 9968
Kostina, L. I. 446, 6997
Kostina, L. T. 9776
Kostjanev, S. 2914
Kostka, L. 2315
Kostková, H. 1080
Kostov, K. D. 3121
Kostova, R. 3523
Kostrzewa, Z. 1443, 2237
Kostyanev, S. 2914
Kosykh, S. A. 9115
Kota, M., V. 5135
Kotalawala, J. 3898
Koteswara Rao, G. 9664
Kotko, I. K. 121
Kotko, I. K. 8626
Kotova, K. 7032
Kotova, K. A. 3736
Kotova, K. H. 1250
Kotovska, N. 2364
Kots, Z. P. 9187
Kotwal, S. V. 9272
Koul, A. K. 7391, 9896
Kousalya, G. 6167
Kouyeas, H. 3879
Kováč, A. 2803
Kovačev, G. 3004
Kovačević, V. 3785
Kovach, I. 9566
Kovachev, G. 3004, 6188, 6214
Kovachev, I. 9446
Kovachevski, I. 5566
Kovachva, I. 6449
Kováčik, A. 4052, 5614, 6156, 6159, 8100, 9603, 9660
Kovács, A. 7939
Kovács, E. I. 6114, 6115
Kovács, G.-né 8712
Kovács, I. 4224, 4984, 9566
Kovács, K. 225
Kovács, S. 5351
Kovács-Schneider, M. 4308
Kovácsné Schneider, M. 8712
Koval', G. K. 670, 2998
Koval'chuk, R. 7065
Kovalenko, I. F. 8863
Kovalenko, V. F. 9585
Kovalenko, V. I. 460, 4471, 4477
Kovalev, I. A. 2060
Kovalev, S. N. 10019
Kovalevich, M. D. 6798, 6845
Kovarskiĭ, A. E. 5175, 5544
Kovineva, V. M. 1642
Kovitvadhi, K. 5067
Kovtun, I. 7755
Kowalczuk, E. 398
Kowalewski, Z. 2214
Kowalska, M. 3610, 3627, 4356
Kowalski, M. 385
Kowatschew, I. 9446
Kowles, R. V. 1854
Kowtun, I. 7755
Koyama, T. 4392
Kożera, W. 3630, 4344, 4345, 4361, 9640
Kozhanova, N. I. 3107
Kozhemyakin, E. V. 8614
Kozhevnikova, N. N. 9257
Kozhushko, N. N. 3497, 6767
Kozik-Pióro, H. 1541
Kozikova, R. K. 9993
Kozlenko, L. V. 9628
Kozlov, Ya. I. 9990
Kozlova, Ė. P. 4302
Kozlova, N. F. 9759
Kozlovskaya, V. F. 984
Kozlovskiĭ, A. I. 3778, 5994
Kozlowski, T. T. 682, 7344
Kozma, P. 8204
Kozub, G. C. 2675
Kozłowski, S. 8808
Kraeva, G. A. 3516
Kraevoĭ, S. Ya. 779, 3757, 4864, 6342, 7137, 8307
Kraevoy, S. Ya. 7137
Kraft, J. M. 1628, 10171
Krajevoy, S. Ya. 779
Kraker, J. de 6439
Kralj, D. 9899
Kramarovsky, E. 8283
Kranz, A. R. 1823, 7780, 9331
Krapovickas, A. 2157
Krasheninnik, N. V. 2023, 5199
Krasichkov, V. P. 7055
Krasnikov, B. 8279
Krasnodębski, P. 5305
Krasnova, L. I. 2584
Krasnuk, M. 6972
Krätzig, P. 7006, 7038
Krause, R. A. 9678
Krauss, B. H. 4630
Krauss, M. 1144
Krausse, G. W. 5865, 7843
Kravchenko, G. F. 9885
Kravchenko, M. L. 1796, 9425
Kravchenko, N. A. 9182
Kravchenko, V. A. 3557, 4929, 9542
Kravtseva, N. I. 10003, 10005
Kravtsov, Yu. F. 9875
K"rdzhieva, N. 3242, 3383, 3712, 6449
Kreft, I. 6874, 6880, 7844
Kretchman, D. W. 770, 7396, 10116
Kretschmer, A. E., Jr. 8871
Kriebel, H. B. 1515, 1518, 5479
Krilov, A. 9550
Krisak, A. S. 8995
Krishna Doss, D. 3759
Krishna Murthy, V. 672
Krishna Sastry, K. S. 4374
Krishnamoorthy, H. N. 5514
Krishnamurthi, M. 6324
Krishnamurthy, K. 328, 4872, 5032, 5863, 6914, 9582
Krishnan, P. 3042
Krishnan, R. 1326, 7461
Krivchenko, V. I. 4259, 5673
Krivkina, N. P. 7078
Krivogornitsyn, B. I. 9623
Krivosheĭ, I. D. 4427
Krochmal, A. 7207
Kroetz, M. E. 1598
Król, M. 4890
Królikowski, Z. 3576, 3600, 9558
Krome, W. H. 5402
Kronborg, D. 19
Kronenberg, H. G. 3064
Kronstad, W. E. 970, 971, 2682, 4191, 5007, 8553, 9632
Kroon, G. H. 7405
Kropis, E. P. 7268
Kropisz, A. 1511
Kropp, K. 6222, 6298
Kroppowa, M. 6222, 6298
Krotov, A. S. 935, 1168, 8799
Krotova, O. 3978
Kroumov, I. 6276
Krüger, E. 1353
Krüger, W. 4980, 4985, 6848, 8728
Krulikovski, Z. 9558
Krumov, I. 6276
Krupa, F. 4367
Krupeĭ, N. S. 7343
Krupinsky, J. M. 1803, 4896, 6787
Krupnov, V. A. 967, 4902
Krupp, H. K. 5091
Kruppa, V. V. 1463
Kruse, A. 5682
Kruse, J. 3623, 4363
Krushev, L. T. 1524
Kruska, P. D. 9799
Krutikov, Yu. N. 8651
Kruzhkova, I. V. 4209
Krylova, M. I. 9243
Krylova, T. V. 3770
Kryshnyaya, S. V. 10166
Kryuchkov, A. 777, 6364
Kryzánek, R. 5614
Krzanowski, W. J. 872
K"rzhin, Kh. 1800
Krzywacka, T. 4879
Ksenda, T. V. 5792, 7776
Ku, Y. L. 5928
Kubarev, I. I. 87
Kubarev, P. I. 87
Kubasiewicz, J. 7262
Kubiak, R. 25
Kubicki, B. 2322, 3168, 3182
Kubiczek, R. 8531
Kubjatko, F. 2572, 4229
Kubok, I. 5991
Kubota, T. 4376
Kuć, J. 5565
Kucera, C. L. 5139
Kučera, J. 34, 3378, 7674
Kucewicz, O. 5361
Kuchumova, L. P. 1022
Kuckuck, H. 6756
Kůdela, V. 5970, 6971
Kudelich, V. S. 9831
Kühbauch, W. 9696
Kuhfuss, K. H. 8850
Kühn, H. 2626
Kujawiak, Z. 2020
Kukimura, H. 451, 2015
Kukīn, V. F. 6160
Kukina, T. I. 3609, 8702
Kukuruza 3558
Kukuła, S. 5701, 5702
Kukułka, I. 8808, 8809
Kulakarni, K. R. 5023
Kul'baeva, G. I. 7064
Kulesza, W. 3881
Kuliev, A. M. 5964
Kulik, T. O. 6853
Kulikova, N. T. 9715, 10087
Kulitchkov, V. A. 3263
Kuliyev, A. M. 5964
Kulkarni, L. G. 4507
Kulkarni, N. B. 6909
Kulkarni, S. N. 76, 4394
Kulkarni, V. A. 7877
Kul'tebaev, E. T. 4561
Kulunev, D. 7112
Kumagai, K. 318, 1150
Kumagai, T. 5789
Kumagai, Y. 4525
Kumakov, V. A. 8614
Kumar, A. 751
Kumar, B. 1034
Kumar, J. 1807
Kumar, J. C. 6348
Kumar, K. 171
Kumar, P. R. 5302
Kumar, S. 476, 1872, 2075, 3244, 4272, 7095, 7097, 7805
Kumik, E. 2981
Kump, M. 9561
Kundu, T. K. 6063
Kunelius, H. T. 2806
Kunev, K. M. 4488
Kung, F. H. 4633
Kuniyasu, K. 4013
Kunjamma Hrishi, V. K. 5885
Kunovski, J. 1800
Kunovski, Z. 2591
Kunovski, Zh. 1800, 2591, 5775
Künzel, G. 2488, 4999
Künzli, W. 4253
Kuo, S. J. 4632
Kuo, S.-R. 4632
Kupatadze, I. V. 4629
Kuperman, F. M. 7383, 7853
Kuptsov, A. I. 859, 2483, 9028
Kuptsova, A. G. 3715
Kurahashi 700
Kuramoto, M. 6041
Kurata, H. 10100
Kurbangel'dyev, S. 7087
Kurdjieva, N. 3383, 3712, 6449
Kurennoĭ, N. M. 8153
Kurets, V. K. 7643
Kurihara, T. 1336
Kurita, M. 801, 4023
Kuriyama, T. 4013, 4017
Kurjin, C. 1800
Kurkela, R. 425
Kurmarohita, B. 9659
Kurnik, E. 1732, 2981, 4813
Kurochkin, A. 1212
Kuroiwa, T. 1671, 7551
Kuroki, Y. 801, 4023
Kursakova, L. E. 9116
Kürten, P. W. 2626
Kurtev, P. 10027
Kurtew, D. 10027
Kushibiki, H. 4315
Kushman, L. J. 5213, 7297
Kushwaha, P. S. 4976
Kust, A. F. 3959
Kustarev, A. 7429
Kustarev, A. G. 9246
Kustareva, N. 7429
Kusuhumi, Y. 5110
Kusumo, S. 3899
Kutsenko, E. F. 5170
Kuun, B. S. 5299
Kuvarin, V. V. 3543
Kużdowicz, A. 7110, 7955, 8040
Kuzina, A. M. 8562
Kuzina, L. V. 9081
Kuzmanoski, G. 519
Kuz'min, G. A. 9955
Kuz'min, V. P. 4870, 5694, 8616
Kuz'mina, K. M. 8614
Kuz'mina, M. V. 1018
Kuznechikova, V. M. 8962
Kuznetsov, L. V. 3349
Kuznetsova, E. A. 10017
Kuznetsova, R. Ya. 7195
Kuznetsova, S. I. 1056, 8655
Kuzubova, I. A. 3194
Kvasnička, S. 6393, 8308
Kvasnikov, B. V. 716, 722, 7432
Kwan, K. H. 2937
Kwasnikow, B. W. 716
Kwon, B. S. 5299
Kwon, S.-H. 4065
Kyai, B. M. 5299
Kynčl, M. 5133
Kłoczowski, Z. 6158, 8097
Kłossowska, E. 2322
Kłossowski, W. 1406, 1415
Labanneiah, M. O. 7086
Laboratoire d'Arboriculture Fruitière, Tunisia 8125, 9938
Laboratoire de Viticulture, Tunisia 8205, 9172
Laborde, A. 1065
Labotskaya, L. I. 9860, 9862
Lacadena, J. -R. 2623
Lacadena, J.-R. 3525, 3540

Lacadena, J. -R. 4217, 7555
Lacaze, J. F. 7360
Lachman, W. H. 1882
Lacroix, L. 5866
Ladizinsky, G. 205, 5795, 7779
Ladyzhenskaya, N. V. 9683
Laemmlen, F. F. 2670, 9690
Lafever, H. N. 104
Lafontaine, J.-G. 4105
Lai, T. C. 529
Laing, E. 2407
Lakova, M. 7172
Lakshmi-Kumari, M. 6974
Lal, G. 1240
Lal, M. S. 8341
Lal, S. 246
Lal, S. B. 1431
Lal, S. D. 10132
Lal, V. S. 2379
Laliberté, J. 586
Lalić, R. 3409
Lall, S. B. 4373
Lallukka, U. 147
Lalova, M. 2656
Lam, S.-L. 2844
Lamacraft, R. R. 2484, 6641
Lamarre, M. 8053
Lamb, J. G. D. 9157
Lamb, R. C. 4571, 5379
Lambers, D. H. R. 8598
Lambert, A.-M. 881
Lambert, R. J. 242, 9596
Lambeth, V. N. 5518, 6401
Lamboy, S. V. 1424
Lammers, R. P. 1634
Lamothe, M. de N. de 4596, 4597
Lampard, J. F. 3829
Lamprecht, M. P. 4495, 8069
Lan, T. 6923
Landbouweekblad 4848
Landbouwproefstation Suriname 2473
Landbrugets Kornforædling 9354
Landolt, E. 3199
Lane, D. 14
Lane, R. P. 3916, 3917
Lange, E. 1403
Lange, H. 5200
Lange, I. Ja. 989
Lange, J. E. De 688
Lange, J. H. De 9141, 9143
Lange, W. 7010
Langenfeld, W. 2193
Langer, F. A. 1755
Langer, R. H. M. 10176
Langford, W. R. 2778
Langham, R. M. 7071, 7072
Langille, A. R. 3719
Langille, J. E. 3536
Langton, F. A. 436, 3741, 6017
Lanham, C. A. 2712
Lanier, L. 7360
Lanner, R. M. 7354
Lanza, F. 4829, 5697, 6553, 8672
Lapchenko, G. D. 4845
Lapikov, N. S. 9532
Lapina, N. F. 9817
Lapins, K. O. 3003, 7241
Lapshina, A. N. 9549
Laptev, Yu. 3733
Laptev, Yu. P. 6007, 6008
Lardelli, R. A. 165
Larionov, Yu. S. 4880
Larrea, N. L. 5927
Larsen, F. E. 6202
Larsen, J. 7725
Larsen, P. O. 4328
Larson, R. I. 2607
Larter, E. N. 2541, 2543, 2700, 5725, 7712
Lasa, J. M. 6104
Laser, K. D. 299, 2489
Lashkov, A. 7677
Laskin, V. P. 212
Laskova, E. 7429
Laster, M. L. 6033, 9815
Lastovich, A. S. 967
Laszlo, I. 3072, 3088, 3109, 5423, 5438, 6290
Laszlo, I 7325, 8230
László, T. 6814
Laterrot, H. 8314, 9255
Latrasse, A. 640
Latter, B. D. H. 8037
Latypov, A. Z. 2544, 2576, 3443, 4868, 8542, 8565, 8568, 8585, 8586, 8593, 9456
Lauden, L. L. 498
Lauer, F. I. 2868
Laughlin, K. 2283
Laughnan, J. R. 1864
Lavee, S. 3925
Lavezzi, A. 5431
Laville, E. 3366
Laviolette, F. A. 1604, 7479
Lavrent'ev, G. F. 9683
Lavrik, P. I. 2185
Lavrinenko, G. T. 7954
Law, A. G. 9692
Law, C. N. 6741
Law, J. 2507
Lawalrée, A. 688
Lawless, J. R. 2724
Lawn, R. J. 6458
Lawrence, B. M. 853, 854
Lawrence, C. H. 435
Lawrence, J. M. 9263
Lawrence, T. 3680, 8823
Laws, J. 5369
Lawson, N. C. 9741
Laxman Singh 813, 816, 1592, 1640, 4064, 4748, 6482, 7515
Layton, C. 2277
Lazány, A. 7782
Lazányi, A. 4273, 7782
Lazareva, A. G. 3054
Lazarides, M. 7922
Lazarov, K. 5381, 6252
Lazarov, N. 7857
Lazo, F. D. 2163
Lazukov, M. 1392
Leach, G. J. 3703
Leaflet, Ministry of Agriculture, Fisheries and Food, UK 1045, 1233, 1234, 3403, 3404, 3412, 4338, 4339, 4915
Leakey, C. L. A. 7464
Leath, K. T. 3699
Leaumsang, P. 5067
Lebedencu, I. 7956
Lebedeva, N. A. 8899
Lebedeva, T. V. 6699
Lebedeva, V. A. 8899
Lebiedź, S. 9485
Lebsock, K. L. 1792, 2518, 3417, 9410, 9448
Lech, W. 5405
Lechtenberg, V. L. 2652
Ledecký, J. 218
Ledig, F. T. 699
Ledoux, L. 873
Lee, B. T. O. 1955
Lee, C. 188
Lee, C. S. 6510
Lee, D. K. 3051, 4600
Lee, D. W. 2600
Lee, H. K. 2846
Lee, H. S. 8825
Lee, J. 6500, 6761, 7718
Lee, J. A. 9814
Lee, J. I. 5299
Lee, J. M. 4727
Lee, S. K. 7350, 7879
Lee, S. -T. 448
Lee, T. S. 3674
Lee Valley Experimental Horticulture Station 8261
Legendre, B. L. 6073
Legendre, P. 46
Legg, P. 520
Legg, P. D. 2102, 2111, 2915, 2930, 2934, 8054, 8992
Leggett, J. E. 9290
Lehman, W. F. 131, 9411
Lehmann, C. O. 2604, 3623, 4163, 4358, 4360
Lehmann, J. 5126, 6933, 6981, 8852
Lehrer, W. 6986
Lein, A. 6860
Lein, K. -A. 548
Lein, K.-A. 4506
Leĭstrumas, K. 4993
Lekavičius, A. 1456
Lekeš, J. 9629
Lekesh, Ya. 4349, 9629
Lekha Satanimi 305
Lekomtseva, S. N. 8535
Lekšan, M. 7280
Lelacheur, K. E. 2834
Leleji, O. I. 4725, 7476
Lelley, J. 956, 7652
Lembert, R. D. 9596
Lemeni, V. 6357
Lemeshev, N. K. 9798
Lenartovich, V. 8137
Lenartowicz, W. 10007
Leng, E. R. 10144
Lennik, Z. N. 1859, 8709
Lentz, C. P. 718
Leo, P. De 8405
Leokene, L. V. 1208, 1210, 8864
Leon, A. E. 8784
León, C. 6445
Léonard, A. 4764
Leonard, K. J. 250, 6852
Leonov, I. P. 2099
Leonova, M. S. 5669, 10130
Leonova, N. S. 1079
Leont'ev, S. I. 9460
Leoveanu, M. 8340
Léoville, F. 2894
Lepădatu, V. 3088, 3112, 5429, 8212, 10040
Lepaĭyė, Ya. 3611
Lepaĭyė, Ya. Ya. 4354
Lepajõe, J. 3611
Leroy, J. -F. 539, 540
Leroy, J.-F. 2959
Lersten, N. R. 2489
Les, M. 3243
Lescure, A. M. 9332
Lesins, K. 388, 2797, 2798, 5152
Leskovec, E. 7400
Lesley, J. W. 10111
Lesnik, V. S. 4317, 8702
Lesovodstvo i agrolesomelior. Resp. mezhved. temat. nauchn. sb. 8243
Lessman, K. J. 4510, 9922
Lester, D. T. 3129, 3130, 5472, 5479, 7345
Lesunova, N. G. 3958
Leukhina, T. N. 4454
Leuty, S. J. 3001
Levadoux, L. 4619
Levan, A. 2311
Lévaváry, B. 10118
Levin, B. R. 6531
Levin, D. A. 897
Levina, T. M. 4255
Levings, C. S. 2413
Levings, C. S., III 2657
Levites, E. V. 1838
Levitskiĭ, I. A. 1017
Levy, J. 1780
Levy, R. D. 9591
Lewis, C. F. 9813
Lewis, D. 3960
Lewis, E. J. 1185
Leyvraz, H. 1465
l'Héritier, P. 7542
Li, H. W. 2748, 3663
Li, S.-C. 3184
Li, S. T. 448
Li, T. S. 3674
Li, Y. S. 3663, 6962
Liang, G. H. 1911, 2726, 8770, 9443
Liang, Y. T. S. 2726
Liao, T. L. 8074
Liau, T. L. 8074
Libbenga, K. R. 7505
Libby, W. J. 1527, 1534
Lichev, P. 1472
Lichter, R. 4816
Lida, Y. 5108
Liebenberg, H. 5958
Liegel, W. 5354
Lieuw Kié Song, P. A. 5052, 7614
Ligato, L. 5728
Likens, S. T. 1352, 2972
Likhodzievskaya, A. 2061
Likhonos, F. D. 3864
Likhvar', D. F. 9556
Lilaramani, J. 246
Lilov, D. 4617
Lim, S. M. 8725
Lim, T. M. 1390
Lim, U.-K. 7159
Lim, W. H. 4611
Limar', R. S. 9590
Limberk, J. 450
Lin, C. Y. 565, 7185, 7186
Lin, E. H. 3657, 4380
Lin, F. H. 5923
Lin, H. 565, 7185, 7186
Lin, L. F. 330
Lin, P. C. 330
Lin, S. S. 8770
Lin, T. F. 2741
Lin, T. L. 876
Lin, T. T. 2943, 2944
Linchevskiĭ, A. A. 1899, 8737, 8751
Lincoln, D. E. 855, 7519
Lindauer, L. L. 1974
Lindauerová, T. 1569
Lindberg, G. D. 2662
Linde-Laursen, I. 3289
Lindegaard, J. 2709, 2710
Linden, M. I. 10127
Lindfors, S. 2295, 8493
Line, R. F. 2596
Lineback, D. R. 5752
Linedale, A. I. 818
Lines, R. 696
Ling, C. L. 3772
Ling, K. C. 9888
Linhart, Y. B. 1534
Link, D. 2755
Linnik, V. M. 5024
Linskens, H. F. 6806, 8710
Linsley, E. G. 3166
Liorek, S. I. 2835, 10073
Lipari, V. 3986
Lipińska, J. 1253, 2039, 4434, 4435, 7019
Lipovec, J. 9076
Lippert, L. F. 749, 750, 3164
Lipsits, D. V. 8894
Lipsitz, D. V. 8894
Lisenko, V. M. 7970
Lishchuk, A. I. 590
Lishenko, I. D. 4027
Lishenko, N. P. 4027
Lisitsyna, R. A. 9466
Listowski, A. 6012
Lisunov, I. K. 9597
Littlefield, L. J. 8014
Litton, C. C. 520, 2102, 2915, 2930, 2934, 8054
Litvin, N. 4804
Litvinenko, A. I. 8307
Litvinenko, F. P. 4371
Litvinenko, I. I. 8953, 8956
Lityński, A. 8339
Liu, L.-J. 1311
Liu, L. J. 2209, 2904
Liu, P. B. W. 7412
Liu, T. T. 2942
Liuni, C. S. 7324
Liyanage, D. V. 8188
Lizgunova, T. V. 10083, 10084
Lo, C. C. 5240
Lo, C. S. 7102
Lobanov, G. 4800
Lobanov, G. A. 9090, 9941
Lobanov, P. P. 4792
Lobato, E. 1109
Lobo, A. 3165
Lobodin, O. K. 9879
Lobotskaya, L. I. 3788
Locascio, S. J. 2240
Lockard, R. G. 762
Loden, H. D. 8482
Lodhi, G. P. 409
Loebenstein, G. 7258
Loegering, W. Q. 7773

Loerke, E. 9262
Loesch, P. J., Jr. 1095, 1096, 1107, 1881, 2649
Løfting, E. C. L. 8258
Logachev, N. D. 9636
Logan, J. 5235, 5236
Loganathan, S. 1161
Loh, C. S. 7102
Loiselle, R. 54
Lomakin, E. N. 615
Lomakina, M. I. 9965
Long Ashton Research Station, University of Bristol 9034
Long, D. L. 180
Long, E. M. 675
Lonskiĭ, A. V. 887
Lontai, I. 6522
Lööf, B. 5300
Loomis, R. S. 3798
Looveren, K. van 4913
Lop, N. E. 5819
Loper, G. M. 9728
Lopes, M. H. C. 2957
López, A. 2597
López F., L. C. 4044
López García, H. 8327, 8359
López-García, J. 1426, 7288
López P., O. 2883
López Pinto, O. 9825
López-Rioboo Latorre, S. 1442, 2244
López-Sáez, J. F. 2447
Lorbeer, J. W. 7388, 9216
Lord, A. 4105
Lord, L. 224, 408, 772
Lorente Albiñana, R. 4098
Lorenz, H. 5821
Lorenz, K. 1015, 3472
Lorenzetti, F. 389, 1884, 1988, 3952
Lorenzoni, C. 8394
Loresto, G. C. 5090
Loreti, F. 2220, 2221, 4589, 6295
Lorkiewicz, Z. 398
Loshak, I. F. 9636
Loshkareva, A. V. 3397
Lotfi, M. 5564
Löther, R. 3279
Lötter, B. F. 4199
Lotti, A. 6840
Lotti, G. 3669
Louarn, J. 2124, 5284
Loughton, A. 4151, 4155
Louie, R. 258, 2674
Louvet, J. 9998
Lovadini, L. A. da C. 9842
Lovato, A. 9254
Lovkova, M. Ya. 523
Lovkova, M. Ya 2112, 8063
Lowe, H. J. B. 3797
Lowe, L. B. 166, 2571
Lowe, R. H. 8993
Lowe, S. B. 2872, 7043
Lower, R. L 2325, 2326, 5512
Lowrey, R. S. 2728
Loy, J. B. 756, 7412
Loynet, G. 1835
Loza Bonifaz, E. 6045
Lozada V., O. 5238, 7103
Lozano, J. C. 2912
Lozitskiĭ, A. Ya. 9963
Lubenets, P. A. 348, 391, 6968, 6970
Lubimova, V. F. 986
Lubnin, A. N. 5772
Luchanska, E. O. 1998
Luchsinger L., A. 2633
Lučić, S. 3507, 3509, 3510
Łucka, M. 5413
Lucken, K. A. 3424, 8582
Luckmann, W. H. 834
Luddington Experimental Horticulture Station 7375
Ludilov, V. A. 4020
Ludnikova, L. A. 5533, 10037
Ludván, G. 6084
Luetkemeier, O. W. 81
Luig, N. H. 179, 181, 3517, 3677, 7767
Luisetti, J. 628
Luke, H. H. 204
Lukefahr, M. J. 473
Lukina, L. F. 7754, 8609
Lukovnikova, G. A. 9847, 10077, 10084
Luksha, R. K. 3283
Luk'yan, A. M. 4701
Luk'yanenko, D. D. 2331
Luk'yanenko, È. Kh. 9615
Luk'yanenko, M. V. 9628
Luk'yanenko, P. P. 111
Lukyanenko, P. P. 145
Luk'yanenko, P. P. 145, 967
Lukyanenko, P. P. 982
Luk'yanenko, P. P. 982
Luk'yanyuk, S. F. 4765
Lulle, J. 10099
Lulov, K. 2921
Luncă, L. 7199, 8113
Lund, H. R. 3570
Lundin, M. 1599, 1600
Lundin, P. 1116, 1599, 1600
Lundqvist, A. 3289
Lundström, H. 4026
Lundy, H. W. 2630, 3578
Luneva, M. Z. 1333, 2278, 5269
Lungu, I. 4051
Lunyeva, M. Z. 2927
Lupescu, F. 4566, 6260, 8190
Lupescu, T. 2195
Luppi, G. 7941
Lupton, F. G. H. 146, 7667, 9500
Lusher, R. 2856
Luthra, J. K. 4260
Lutkov, A. N. 2006, 4169, 8366
Lutomski, J. 7205
Lutrick, M. C. 3578
Lutyńska, R. 8811
Lutz, J. A., Jr. 2648
Luukkanen, O. 7344
Luxmoore, R. J. 1779
Luxová, M. 8401
Lužný, J. 738
Lyakavichyus, A. A. 1456
Lyameborshai, L. M. 119
Lyapshina, Z. F. 2562
Lyashchenko, I. F. 1897
Lyfenko, S. F. 967, 4866, 8541, 8543
Lynch, D. R. 2859
Lynch, K. D. 691
Lynch, K. W. 4820
Lyubavina, R. F. 4336
Lyubetskaya, I. V. 9819
Lyubimova, V. F. 986
Lyul'kina, E. I. 1858
M. Ata Elahi 6070
M. Ataullah Khan 1757
M. Mohammad Saleem Bhatti 6894
M. Refaat el Shamy 7457
Ma, T.-H. 8408
Maag, G. W. 5253, 7123, 9881
Maamouri, A. 5680
Maan, S. S. 9449
Maas, G. 4814
Maat, D. Z. 2352
McCarter, S. M. 10121
McCarty, I. E. 7964
McClain, E. F. 9694
McCloud, D. E. 3689
McComb, J. A. 6967
McCoy, G. A. 8831
McCoy, N. L. 1975
McCoy, O. D. 3164
McCree, K. J. 461
McCullagh, S. F. H. 5248
McCullough, M. E. 9658
McDaniel, J. C. 8238, 8239
McDaniel, M. E. 8639, 9521, 9523
McDaniel, R. G. 1985, 2664, 5967, 8916, 9376
MacDonald, A. J. 445
McDonald, C. E. 5753
McDonald, D. J. 5051
Macdonald, P. D. M. 6821
MacDonald, T. 4837
Mace, M. E. 1581, 9608
Macedon, V. 8011
Macefield, A. J. 3681
McEwan, J. M. 6673
McEwen, T. J. 1546
McFerran, J. 2344
McGahen, J. H. 9583
McGee, D. C. 5210
McGinnis, R. C. 2527, 6792
McGregor, A. W. 5866
McGregor, J. 2419
McGuire, C. F. 3457, 4889
McGuire, J. A. 7951
Machado, A. D. 5292
Machado Cazorla, E. 2994
Machado, U. D. 5292
MacHardy, W. E. 3193, 4714, 4715
Machi, I. 8196
Machis, Yu. 4699
Machnik, B. 5361
Machnik, J. 1403
Machold, O. 3188
Macici, M. 5438
Maciejowska-Pokacka, Z. 6797
McIntosh, A. D. 8110
McIntosh, R. A. 184, 2594
Mackay, G. R. 1545
McKee, C. G. 1328
McKee, G. W. 3719, 9583
McKeen, C. D. 3197
McKenna, L. A. 1251
MacKenzie, D. R. 4832, 4851
McKenzie, H. 4234
McKenzie, R. I. H. 1821, 9528
MacKenzie, S. L. 1547
Mac Key, J. 3532, 6751
Maćkowiak, C. 6762, 6795
MacLachlan, J. B. 3793, 5249, 5250, 5251
MacLean, A. J. 6843
McLean, G. W. 5048
MacLean, M. S. M. 2365
McLellan, J. C. 5230
MacLeod, L. B. 2806
MacLeod, R. D. 20
Macleod, R. D. 28
MacLeod, R. D. 3265
McMillan, R. 5459
McMillan, R. T., Jr. 2369
McMillian, W. W. 253, 310, 1102, 1103, 5903
McNaughton, I. H. 2007, 7392, 9224, 10082
McNeal, F. H. 1040, 2557, 3457
McNees, R. E. 7352
Macnicol, P. K. 7506
McVey, D. V. 180, 6775
Madalena, F. E. 3268
Madan, S. K. 3983
Madariaga L., C. 8093
Madden, G. D. 6300
Madden, K. 7094
Maddy, G. E. 7396
Mader, E. L. 1605
Madhav Rao, 7873, 7874
Madhava Rao, G. 4374
Madhava Rao, T. 284, 6904
Madhava Rao, V. N. 639, 8050
Madjarova, D. 3162, 4090
Madzharova, D. 3162, 4090, 6347, 8368
Madzhitova, S. R. 9995
Maeda, K. 4523, 4524, 9918
Maestri, M. 1299
Maga, J. 1015, 3472
Magalhães, W. S. 6143
Magashshi, L. V. 9852
Magassy, L. 6082, 6086, 9852
Maggini, F. 3273
Maggiore, T. 8292, 9229
Maggiotto, A. 5526
Maggs, D. H. 8242, 9074
Magini, E. 7336
Magnavaca, R. 2650
Magoon, M. L. 1326, 2910, 4048, 8803
Magu, S. P. 6974
Maguire, M. P. 22, 231
Magurov, P. F. 5743
Mah. S. Attia 7457
Mahabal Ram 5103, 7881
Mahadevan, P. R. 870
Mahadevappa, M. 1935, 9668
Mahanty, H. K. 7204
Mahapatra, B. K. 8623
Mahapatra, I. C. 7884, 8789, 9676
Mahasen A. El-Badry 4593
Mahasen El-Badry 5424
Mahendra Singh 1036
Maher, E. P. 2815
Maher, M. J. 2171
Maheshwari, S. C. 4112
Mahlberg, P. 7138
Mahmood, M. 1740
Mahmud-ul-Hassan 6723
Mahudeswaran, K. 5885, 9650
Maier, I. 6027
Maier, J. 1320
Maĭkevich, G. S. 23
Main, C. E. 2938, 2939
Maini, S. B. 3801
Maĭstrenko, O. I. 954
Maĭsuradze, N. I. 9139
Maita, S. 7692
Maiti, S. N. 1568, 3180
Maĭzbukhovskaya, V. V. 8635
Maizonnier, D. 9429
Majisu, B. N. 8774
Major, D. J. 244
Majoros, L. 7300
Majumdar, B. 5102
Majumdar, P. K. 2231
Makarevich, A. P. 3533
Makarewicz, A. 9323
Makarov, G. Ya. 10169
Makarov, P. 3733
Makarov, P. P. 6008
Makarov, V. V. 2400, 7520
Makarova, A. G. 2073
Makasheva, R. Kh. 1625
Makedonov, G. P. 893
Makerere University College 2474
Makhalova, M. R. 779, 780
Makhmadaliev, K. 2063
Makhmadaliev, K. M. 2055
Makhmudkhodzhaev, T. 1280
Makhovikova, E. K. 3470, 8587
Makino, T. 139
Makita, M. 5256, 9883
Maknev, K. 3595
Makogon, A. M. 5246, 9865, 9884
Makosz, E. 7262
Makowska, D. 6867
Makowski, W. 2314
Maksak, I. N. 1865, 8715
Maksimenko, T. V. 958
Maksimova, E. P. 10161
Maksimova, N. I. 3349
Maksimova, V. I. 1856
Maksudkhodzhaev, D. 8004
Makuch, M. 5186, 7982
Malagoni, R. 6928
Malaguti B., G. 4987
Malaguti, G. 1877, 2663, 2883, 2978, 9825
Malanna, K. N. 290
Mal'chenko, V. V. 10143
Mal'chikov, Yu. A. 9174, 9175, 10034
Malcolmson, J. F. 3743
Malec, K. 1248, 2032
Malee Chantharakarn 424
Malenin, I. 8228
Maletskiĭ, S. I. 1838, 4337, 9338
Maletzky, S. I. 4337
Malewski, W. 3738, 6437
Malfa, G. la 3953
Malhotra, R. S. 2378, 5864
Malhotra, V. P. 7968
Maliani, C. 4242, 4244, 8596
Maliga, P. 7139
Malik, C. P. 1970, 6064
Malik, D. M. 464
Malik, H. S. 1162
Malik, R. S. 475, 5996
Malinin, B. P. 7060
Malinin, V. M. 8925
Malinovskiĭ, N. A. 10035
Maliwal, G. L. 2744, 9604
Maljutin, K. 1513
Maljutina, E. 1513

Malkin, V. K. 1529
Mallanna, K. N. 5023, 5886
Mallik, P. C. 3067
Mallough, D. 3414
Malm, N. R. 84, 387, 4430
Malo, S. E. 6248
Malting Barley Improvement Association 6866, 6883
Malusha, K. V. 10130
Malykhin, I. I. 9006
Malyshev, E. I. 4702
Malysheva, A. G. 7171, 9007
Malysheva, A. S. 6472
Malysheva-Shishkinskaya, N. A. 5615
Malyutin, K. G. 1513
Malyutina, E. T. 1513
Mamarov, P. 6276
Mamedov, A. K. 8636
Mamedov, È. I. 7992
Mamedov, K. 867
Mamedov, R. A. 2262
Mamedova, Z. 764
Mamin, A. G. 10157
Mamissa, M. R. 5770
Mammad, S. M. 3750
Man, V. 5787
Mandal, S. C. 7618
Mandel, S. P. H. 1679
Mandeville, W. F. 4057
Mandloi, K. K. 4976
Mandloi, S. C. 4394
Mandrik, V. Yu. 1438
Mándy, G. 934, 1229, 3369, 4834, 5589, 7836, 8025, 8295
Mándy, Gy. 934, 1229, 3369, 4834, 5589, 7836, 8025, 8295
Mănescu, B. 3994
Maness, E. P. 4627, 7297
Manga, V. 3635
Mangasarova, L. V. 8302
Manglitz, G. R. 8860
Manibhushanrao, K. 2753, 8796
Manion, P. D. 6318
Manjit Singh Dhooria 5594
Mankinen, C. B. 6990
Manly, B. F. J. 5628
Manmohan Singh 7775
Mann, T. J. 8980
Manner, R. 3368
Manning, W. J. 5499, 5536
Manninger, I. 4179
Manninger, I.-né 5778
Manoliu, M. 4960, 6808, 7696
Manrique C., A. 4933
Mansat, P. 1699
Manser, P. D. 342
Mansour, I. M. 6851
Mansour, I. S. 302
Mansurov, N. I. 7078, 9804
Manthriratna, M. A. P. 3901, 5396
Manthriratna, M. A. P. P. 636, 2770, 8820
Manzoor Ahmad A. Baluch 6165, 6461
Manzoor Ahmad Baluch 6462
Manzoor Ahmad Bhutta 7987
Maqbool Alam 5222
Marangoni, B. 6231
Marani, A. 9805
Marappan, P. V. 6038
Marble, P. M. 7519
Marble, V. L. 7926
Marcelli, E. 2945
Marcellos, H. 2566
Marchand, G. Le 55
Marchenko, A. N. 8932
Marchenko, O. Z. 10096
Marchenkov, A. N. 2070
Marchesi, G. 5516, 10107
Marchi, P. 24, 730
Mărculescu, M. 3079, 3097
Maréchal, R. 804, 7081, 8836
Marečková, H. 5961
Maree, P. C J. 4199
Marele, U. 4566, 6260
Marenah, L. J. 2875
Marfutina, V. 4531
Marghitu, V. 6433, 8331, 10136
Mărgineanu, L. 9952
Margolin, A. F. 3869
Mariam, E. K. 2781
Mariani, A. 3701
Mariani, B. M. 8555, 9570
Mariani, G. 4331
Marie, R. 1165, 4397, 5088, 6922
Marin, E. 5202, 7974
Marinchik, A. F. 9857, 9872
Marinchuk, G. E. 7015
Marinich, P. E. 920
Marinkov, E. 8681
Marinov, I. 8250
Marinova, R. 5995
Mariotti, J. A. 2085, 2899, 2900, 6072
Markakis, P. 3738
Márki, A. 4871, 5231, 6054
Markov, M. 2352
Markova, A. Ya. 3614
Markova, K. 2485
Markova, M. 5330, 7197
Markova, Yu. A. 6472
Markovich, Z. V. 4554
Marks, G. E. 2017
Markula, M. 8536
Márkus, F. 8115
Márkus, L.-né 1006
Markus, S. 4051
Maroutyan, S. A. 2263
Marozzi, N. Q. 67
Marquette, J. 2164
Marquez, F. 4291
Marquez-Sanchez, F. 8664
Marrewijk, N. P. A. van 9220
Marriage, P. B. 4586
Marro, M 2197
Marsal-Diaz, J. P. 9914
Maršálek, L. 1081, 4319, 6813
Marshalek, L. 1860
Marshall, C. 366
Marshall, D. R. 1962
Marshall, H. G. 9526
Marshall, J. G. 4733
Marshall, R. 5876, 7664
Marshall, S. W. 1972
Marte, M. 4043, 4713
Marten, G. C. 1084, 9707, 9708
Martens, J. W. 192, 193, 1821, 6789, 9527
Martin, A. 1816
Martin, D. 5436
Martin, E. E. 156
Martin, F. W. 514, 1327, 5264, 7045, 8966, 8967
Martín, G. O. 1987, 2333, 2641, 2642, 6266, 7921, 7931
Martin, J. 1666
Martin, M. W. 2346
Martin, R. J. 10145
Martin, T. 3111, 5436
Martin, W. J. 8905
Martínek, V. 7790
Martínez, A. 1359, 2137
Martinez, A. L. 2225
Martínez, C. A. 4982
Martínez Martínez, A. 4024
Martínez R., O. 3234
Martínez, R. R. 8283
Martini, G. 4100
Martini, S. 3266
Martinić, Z. 1788
Martinis, Z. 9313
Martins, A. L. 3930
Martinson, C. A. 1880, 4327
Martinson, V. 2123
Martinson, V. A. 2964
Martirosyan, È. L. 6288, 8226
Márton, L. 7139
Martynov, V. M. 920
Martynyuk, A. A. 1213
Martynyuk, R. T. 121
Marusich, V. A. 6211
Marutyan, S. A. 2263, 4622, 5443
Maruyama, T. 1, 1655, 2420, 3337, 3338, 4763, 5604
Marx, D. H. 4642
Marx, G. A. 2391
Mary, T. N. 1970
Mar'yakhina, L. Ya. 6413
Marzadori, M. 4694
Mascarenhas, J. P. 895
Mashaly, A. 6984
Mashkin, S. I. 9978
Mashtakov, S. M. 7644, 9750
Masiak, D. 2116, 5278
Maslekar, S. R. 5592, 6352
Maslov, A. P. 8621
Maslova, N. F. 7641
Maslumow, A. 8038
Mason, H. C. 7445
Mason, J. L. 2807
Mason, L. 2660
Massantini, F. 97
Massino, I. V. 3592
Massoud, S. I. 6469
Mastenbroek, J. J. 5079
Masterson, J. B. 2102, 2915, 2930, 2934
Masud, K. 4250
Masuda, M. 4525
Masui, M. 3982
Masuo, Y. 6121
Mateescu, N. 6492
Matevska, M. 5425
Matevska, N. 1460, 3090
Matewska, N. 3090
Mathai, P. J. 4716
Máthé, I. 5417
Máthé, I., Jr. 5417
Matherne, R. J. 9840
Mathers, J. C. 7666
Matheson, E. M. 2526, 4206
Mathieson, A. R. 300
Mathieu, G. 8017
Mathur, B. N. 751, 3632
Mathur, D. S. 233
Mathur, J. R. 136
Mathur, L. M. L. 1105
Mathur, R. L. 751, 1135, 2889, 8015
Mathur, S. C. 341, 5095
Matlob, A. N. 6390
Matlock, R. S. 1380
Matoba, F. 6375
Matos, E. de 1227
Matoshka, I. V. 9862
Matrosov, B. F. 8948
Matsov, B. 3712, 4830, 4831, 6449
Matsubara, S. 6527
Matsubayashi, I. 5917
Matsuda, T. 3818, 5267, 7145, 8070
Matsumoto, K. 7878
Matsumura, M. 5142
Matsunaka, S. 5118
Matsuo, T. 1150, 3249
Matsuoka, K. 2122
Matsushima, S. 5109
Matsushima, T. 7692
Matsuura, T. 3345
Matsuzaki, A. 5109
Mattern, F. 1424
Mattern, P. J. 103, 107, 152, 5070, 5754, 9473
Matthew, J. A. 7981
Matthews, V. A. 8417
Mattsson, B. 3532
Mattusche, P. 6361
Matumura, M. 5142
Matuo, T. 3249
Matveev, N. V. 8996
Matvienko, L. N. 7478, 7487, 9305, 10161, 10162
Mátyás, V. 1499, 5454, 10056
Mátyus, M. 7438
Matyushenko, A. V. 9439
Matzinger, D. F. 3808, 8066, 8067, 8980
Maugini, E. 383
Maurer, W. 2236
Mauritius Sugar Industry Research Institute 6066
Mauth, H. W. 72
Max-Planck-Institut für Biologie, Tübingen 8984
Max-Planck-Institut für Pflanzengenetik, Ladenburg 7109
Max-Planck-Institut für Züchtungsforschung, Köln-Vogelsang 8435
Maxson, E. D. 5904
Maxwell, D. P. 4496, 8859
Maxwell, F. G. 2500
Maxwell, J. D. 4069
May, H. 2581
May, H. C. 8356
May, R. G. 9719
Mayama, S. 10080
Mayer, W. A. 832
Maynard, D. N. 10088
Mays, D. A. 8849
Maze, J. 2786
Mazgalska, W. 6876
Mazliak, P. 9730
Mazlumov, A. L. 8038, 9849
Mazunin, M. 6204
Mazunin, M. A. 9059
Mazur, M. 8072
Mazurek, J. 995, 4927, 6795, 6832
Mazurkiewicz, Z. 8280
Mazurowa, J. 8251
Maz'yad, Kh. M. 10142
Mazzani, B. 1359, 2137, 7192
Małecka, J. 5542
Małuszyński, M. 6410
Md Fazlul Haque 2379
Meatyeard, B. T. 45
Mechetnyĭ, N. S. 9467, 9468
Mechislavskiĭ, Yu. A. 7078
Mechkovskaya, P. A. 4930
Medeiros, M. C. 1755, 1756, 2522, 2574
Mederski, H. J. 10151
Medin, A. 8175, 9127
Medvedev, P. F. 368, 1174, 1957
Medvedev, V. M. 4956
Medvedeva, G. B. 967, 1001, 4842
Medvedovskaya, L. E. 7078
Meenakshi, K. 1968
Meenakshisundaram, P. C. 7084
Meer, Q. P. van der 728, 3147, 4663, 4664, 10079
Megorskaya, O. M. 9901
Mehandjiev, A. 1675, 3245
Mehndiratta, P. D. 129, 7775
Mehra, K. L. 200, 820, 4048, 6783, 6940, 7968
Mehra, P. N. 3119, 4631, 6310, 6311, 8246
Mehra, R. C. S. 8326
Mehrotra, N. K. 4624
Mehrotra, S. C. 802
Mehta, S. K. 2138, 8341
Meier, V. D. 4510, 9922
Mekhandzhiev, A. 1675, 3245
Mekhtieva, T. D. 5411
Mélard, V. 2012
Melard, V. 2014
Mélard, V. 2014
Melard, V. 4431
Mélard, V. 4431, 4449
Melard, V. 7025
Mélard, V. 7025
Melchers, G. 1676, 2440, 2456, 8064
Melching, J. B. 3132, 7346
Melekhina, A. 9153
Melichar, B. 5889
Melikhov, A. A. 6201
Mello, L. M. de 8594
Mello-Sampaio T. 3452
Mello-Sampayo, T. 2559, 3425, 3452, 7728
Mel'nik, V. S. 5817
Mel'nikov, N. I. 1022
Mel'nikov, V. E. 9260
Mel'nikova, V. 3048
Melo, J. de S. 2086, 2874, 3405
Melton, B. 7930, 8843
Melton, B. A. 387, 2808
Melville, D. R. 2791, 5224
Melville, S. C. 2712
Memon, A. M. 8912
Menabde, V. 6752
Mence, M. J. 842

Menchaca, M. 1916, 7871, 7872
Mendel, G. J. 861, 4096, 5605, 8380, 8381, 8382, 8383, 8384, 8385, 8386, 8387, 8388, 8389, 8390, 8391, 8392, 8414, 8415, 8416, 8501, 9317, 9318, 9319, 9320, 9342
Mendelson, D. 2608
Mendham, N. J. 5320, 8107
Mendiburu, A. 2847
Mendiola, B. 1142, 7872
Mendoza, P. C. 1308, 1310
Menezes Sobrinho, J. A. de 3171
Menitskiĭ, Yu. L. 8247
Menitsky, G. 8247
Mennessier, P. 7690
Mensinkai, S. W. 1284, 6042, 7873, 7874, 8003, 9010
Menyhért, Z. 6834, 8713
Mercer-Quarshie, H. 5902
Merchat, L. 1730
Mercik, S. 262
Meredith, W. O. S. 5866
Meredith, W. R., Jr. 1267, 6033, 9815
Merker, A. 7708, 9417, 9418
Merker, J. 3805
Merkle, O. G. 2599
Merkulov, A. A. 9983
Merkx, G. 7436
Merlescu, E. 4974
Merritt, C. 5472, 5479
Merwe, J. J., van der 4198
Merwe, P. J. A. van der 6044
Merxmüller, H. 7534
Merz, T. 2431
Mesch, J. 1007, 1754
Měsíček, J. 892
Mesterhazy, A. 8725
Mészöly, G. 7442, 8313
Mészöly, Gy. 7442, 8313
Metevska, M. 5428
Metsänjolostussäätiö 7337
Mettin, D. 3439
Meuldermans, W. 4666, 4670, 6370
Meulen, A. van der 5393
Meunier, J. 560
Mey, J. A. M. van der 5529, 7434
Meyer, C. 356
Meyer, H. 7715
Meyer, R. R. 6534
Meyer, W. A. 4068
Mezentsev, A. V. 7008
Mhedhbi, A. 5487, 9210
Mian, A. L. 3653
Michailov, L. 3848
Michálek, K. 5517
Michalik, B. 4656, 7380
Michalik, H. 2357, 6437, 7381
Michalski, W. 1443, 7262
Michele, A. de 3843
Michell, R. E. 9300
Michna, M. 5326
Micke, A. 5082
Miclea, C. 5718, 7709, 7711
Miedema, P. 5208
Miersch, I. 3188
Mies, D. W. 10147
Migal', M. D. 9836
Migal', N. D. 9837
Mignucci, J. 1311
Migushova, È. F. 1771
Mihăescu, G. 3886, 4583, 4587
Mihăilă, V. 4051
Mihăilescu, A. 3945, 5860, 6322, 9390
Mihăilescu, G. 4960
Mihailov, L. D. 3177
Mihalache, L. 5423
Mihalache, M. 4032
Mihalca, A. 10029
Mihalea, A. 4534, 5337, 8124
Mihaljev, I. 3468, 7740
Mihályfalvy, I. 6092
Mii, M. 8062
Mijačika, M. 7252, 7279
Mijatović, M. 4413
Mikaelsen, K. 2697
Mikami, S. 3141
Mikami, Y. 7146
Mikesell, M. E. 6907
Mikhaĭlets, V. I. 5669
Mikhaĭlichenko, E. A. 507
Mikhaĭlina, E. I. 7083
Mikhaĭlov, L. 3848, 6172, 6415
Mikhaĭlov, L. D. 3177
Mikhaĭlov, M. V. 5441
Mikhaĭlyuk, I. V. 5441
Mikhalev, N. N. 9549
Mikheev, L. A. 3401
Miki, M. 4525
Miki, S. 4856
Mikić, D. 3420
Mikkelsen, K. 8547
Mikkola, L. 7362
Miklos, I. 6854
Mikoshiba, H. 5843
Mikołajewicz, T. 5014, 8758
Miksche, J. P. 3937
Miku, M. G. 5574, 9296
Miku, V. E. 1067, 1078
Milani-Comparetti, M. 8415
Milczak, M. 5982, 5983, 5984, 7952
Milekov, M. 8177
Milella, A. 9138
Milenkov, M. 3004
Miles, C. D. 7544
Mileshko, A. F. 9962
Milheiro, A. V. 9916
Milholland, R. D. 1439
Milică, C. 7851
Milică, C. I. 3501, 5841, 5875, 7826, 7858, 8104
Militiu, I. 5348
Miljković, I. 7257
Millán, R. 3730
Miller, A. 3174
Miller, C. H. 2325
Miller, C. R. 2949
Miller, D. A. 9735, 9736
Miller, F. R. 2728
Miller, J. A. 1668
Miller, J. C. Jr. 4691
Miller, J. D. 1307, 3417, 8551, 9410
Miller, L. I. 2951, 5324
Miller, M. K. 1985, 5967
Miller, O. 2
Miller, O. L., Jr. 7533
Miller, P. A. 9808
Miller, R. J. 4326, 8711
Miller, T. 10062
Millier, C. 7360
Millikan, D. F. 4176, 6206
Milliken, G. A. 3358
Mills, J. S. 10064
Mills, V. M. 8618
Milne-Redhead, E. 515
Milov, V. M. 3247
Milovankić, M. 8157, 8182
Milovanovski, M. 518
Miltimore, J. E. 2807
Milutinović, M. 4773, 8353
Milwant Singh Sandhu 7420
Minenkov, I. L. 5736, 5737, 7724
Minessy, F. 9991
Minessy, F. A. 3842
Minhas, A. S. 9505
Minister for Agriculture and Fisheries, Dublin 6602
Ministry of Agriculture, Rhodesia 5640
Minko, D. G. 7090
Minkov, I. 727, 2309, 4669
Minkow, I. 727
Minor, H. C. 10144
Minozhedinova, N. S. 523, 2112, 8063
Minson, D. J. 7863
Minton, N. A. 1215, 8866
Mir Nawaz Marwat 2974
Mirabdullaev, R. 1288
Miranda Colín, S. 3211, 4036
Miranda, L. T. de 3605
Mirchev, M. 5145
Mirdzhuraev, M. 1259
Miremadi, A. 6244
Mironenko, A. M. 110
Mironenko, A. V. 8869
Miroshnichenko, A. R. 4370
Miroshnichenko, G. P. 3150
Miroshnichenko, I. I. 1226
Mirsagatov, M. M. 4573
Mirza, M. A. 3760
Mischenko, V. K. 7689
Mischie, V. 6223, 6286
Mishanec, W. 2391
Mishchenko, O. Kh. 9947
Mishchenko, V. K. 7689
Mishin, A. N. 6985
Mishra, A. B. 4828
Mishra, B. 309
Mishra, K. A. 2205
Mishra, P. K. 6482
Mishra, R. P. 815, 4418, 4904
Mishra, R. R. 1808
Mishra, S. N. 1960, 1961, 6951
Mishra, V. V. 2679
Mishustina, P. S. 6846
Mišić, P. 2189
Mišić, P. D. 7251, 9061, 9104, 9158
Mišic, T. 3420
Miškov, O. 8146
Mišković, R. 8194
Misra, A. P. 248, 309, 9499
Misra, D. P. 8326
Misra, P. C. 430
Misra, P. K. 2738
Misra, R. D. 1036
Misra, R. K. 334
Misra, R. N. 1153
Misri, B. 4364
Misro, B. 2738
Mississippi Agricultural and Forestry Experiment Station 8445
Mištinová, A. 1199, 7945, 7946
Mistry, P. D. 4732
Miszke, W. 10072, 10074
Mital, S. P. 6488, 8286
Mitev, D. 2838
Mitev, S. 4991, 5845
Mitidieri, A. 2026
Mitidieri, J. 8940
Mitkees, A. I. 6984
Mitov, N. 3631
Mitra, G. C. 5383
Mitrofanov, Yu. A. 885, 6870
Mitroi, V. 6492
Mitsuoka, S. 577
Mitu, M. 5355
Miu, T. S. 9797
Mixon, A. C. 7193, 9921
Miyajima, H. 4648
Miyanowaki, F. 6121
Miyashita, K. 4564
Miyazaki, Y. 3345, 3346, 5483
Mkhitaryan, M. A. 4906
Mkrtchyan, A. A. 2530
Mnatsakanyan, O. A. 4208
Mnatsakanyan, O. H. 4208
Moberly, M. C. 1033
Mochizuki, A. 141, 150
Mochizuki, H. 4013, 4017
Mock, J. J. 245, 2658
Modder, W. W. D. 1167
Mode, C. J. 9329
Modic, D. 7332
Moens, P. B. 5624
Moffett, J.0. 2065
Moga, A. 7328
Moga, I. 7956
Moga, R. 7956
Mogi, S. 5930
Mogileva, V. I. 2539
Moh. Awad Shehata 7426
Mohamed, H. A. 4262
Mohamed Ibrahim 5400
Mohamed Ibrahim, P. A. 5217
Mohamed, L. 6878, 8738
Mohamed, L. R. M. 9642
Mohammad Abdullah 844
Mohammad Ayub Shah 6123
Mohammad Hasan Ali 755
Mohammad Saddiq 6123
Mohammad Sarfraz Khan 2104
Mohammad Siddiq 6110
Mohammad Siddique Ali Miah 7897
Mohammad Zahir Khan 8172
Mohammad Zarif Qazi 123, 6726
Mohan Ram, H. Y. 2080, 6337
Mohan Rao, P. K. 2427, 3664, 4350
Mohan, S. K. 337, 7890
Mohan Singh 5322
Mohandas, T. 7556
Mohanraj, D. 5445
Mohapatra, A. R. 2269
Mohapatra, B. K. 5824
Mohinder Pal 1586
Mohiuddin Ahmad 7993
Mohn, C. 5472
Mohr, H. C. 7420
Moĭnova, K. 4009
Moĭnova, K. 7428
Moir, R. B. 5474
Moiseeva, M. E. 1332
Mojnova, K. 4009, 7428
Mok, D. 2845
Mokritskaya, M. S. 4908, 8629
Mokritzkaya, M. S. 4908
Molchan, I. M. 1054
Moldovan, M. Ya. 8995
Moleavin, V. 8211
Molhova, E. 3435
Molkhova, E. 3435
Moll, R. H. 1068, 2657, 9562
Molnáros, I. 6829
Molotievskaya, K. F. 6238
Molotkov, D. I. 2589, 3428, 8585
Momčilović, V. 3420
Monaco, L. C. 3828, 7153, 8078, 8080
Monaco, T. J. 2325
Monastra, F. 1407, 9135
Moncousin, C. 7563
Moniz, L. 5548
Monod, M. 5111
Monope Palvakul 7856
Monserrate, R. U. 5925
Monson, W. G. 1959, 2728, 9648
Montalbini, P. 4043, 7467
Montaldo, A. 7126
Montanari, L. 3820
Montano, J. 2310
Montelongo-Escobedo, H. 2017
Montes M., R. 831
Montgomerie, I. G. 649
Monti, L. 4857
Monti, L. M. 1565, 2334, 2382, 3813, 7498
Montoya Maquín, J. M. 2966
Montz, G. N. 463
Monzón, D. 3234
Monzón Paiva, D. 4803
Moomaw, J. C. 5088
Moore, C. L. 4286
Moore, C. W. 228
Moore, D. M. 9315
Moore, J. E. 8827, 8833, 9714
Moore, J. N. 3915, 6258
Moore, K. J. 3606
Moore, M. I. 1533
Moore, P. H. 4470
Moore, R. F. 2731
Moraes, G. H. K. de 3189
Moraru, K. V. 8578, 8579, 9489
Moravec, I. 4650
Moravec, J. 6393, 8308
Moravets, I. 4650
Mordalev, V. M. 2922
Moreau, J. P. 4178
Moreira, J. C. S. 1755, 1756, 2522
Morel, G. 1677
Moreno Yangüela, M. T. 3201, 4025
Morettini, A. 1372
Morey, D. D. 2595
Morgan, D. G. 6731
Morgan, D. T., Jr. 6818
Morgenstern, E. K. 7361

Mori, K. 5100, 6916, 6917
Mori, T. 700
Morice, J. 2124, 3830
Morishima, H. 2749, 3335, 3336
Moriya, I. 2690
Morlova, I. 4238
Morozov, A. A., 4271
Morozova, E. 5999
Morozova, G. S. 8131
Morozova, T. V. 9125
Morris, J. L. 709
Morris, M. R. 152
Morris, R. 140
Morrison, K. J. 7669
Morrison, R. D. 1146
Morshchatskiĭ, A. A. 4899
Mortimore, C. G. 2666, 4329
Morton, A. P. 5210
Morton, J. K. 853, 854
Moruhu, G. 6197
Moscoso, C. G. 7282
Moseley, M. E. 8923
Moseman, J. G. 2715, 4359, 6889, 8759, 8761
Moser, P. E. 795
Mosina, S. B. 1921
Moskalenko, K. M. 3030
Moskalev, A. I. 8880
Moskova, R. 383
Mostafa, A. 5979
Mostolovitsa, K. Yu. 5373, 9107
Mota, M. I. 10054
Mota, T. P. 3473, 9595
Moţiu, A. 3882
Motoriko, M. G. 6630
Moule, C. 9520
Mousset, C. 358
Moustafa, M. A. W. 6164
Moustafa, S. 7390
Moutray, J. B., Jr. 9705
Moutschen-Dahman, J. 2973
Moutschen-Dahman, M. 2973
Movchan, V. K. 9490
Mowry, J. B. 608, 1398
Mozammel Haque 482
Mózes, P. 5787
Mozes, P. 6854
Mozhaev, P. 658
Mozhaeva, K. N. 5828
Mozhaeva, V. S. 9627
Mozhayeva, V. 9627
Mozhika, L. 7677
Mozzer, O. L. 8763
Mráz, F. 176
Mucalov, M. 4153
Mucci, F. 10153
Mudra, A. 6677
Muehlbauer, F. J. 1628, 4081, 10171
Mugnozza, G. T. S. 1893, 2382
Muhammad Abdullah Khan 7987
Muhammad Abdus Siddique 755, 799, 2347
Muhammad Afzal Naz 1330
Muhammad Akhtar 466
Muhammad Akram 3773
Muhammad Amin Khan 5896
Muhammad Ikramul Haq 2134, 2135
Muhammad Nawaz 5222
Muhammad Sarwar Qureshi 1151, 7894
Muhammad Shafi 1151, 1925, 1939, 3773, 4008, 7876, 7894
Muhammad Shaikh 6165
Muhammad Yousaf 4008
Muhammad Yusuf 8035
Muhammad Zarif Qazi 1330, 2104
Mujdaba, F. 3112, 5437, 7328
Mujeeb, K. A. 8332
Mukade, K. 1811, 1812
Mukaide, H. 698
Mukewar, P. M. 2069
Mukha, V. D. 60
Mukharji, S. P. 5786
Mukherjee, B. K. 4322, 8674
Mukherjee, D. 6487
Mukherjee, P. K. 1164
Mukherjee, S. K. 908, 2231, 3921, 6279, 7290
Mukhin, N. D. 3406, 4274, 4826
Mukhina, N. A. 350
Mukhopadhyay, A. N. 251, 4325
Mukhtar Singh 7960
Mukunya, D. M. 2665
Mulchi, C. L. 1328
Mulcock, A. P. 394
Mulder, A. D. 7784
Mulinge, S. K. 541
Mulkey, W. A. 3989
Mulkh Raj Gagneja 1932
Mullaly, J. D. 5146
Müller, A. J. 3277
Müller, D. 5584
Muller, L. D. 2652
Mullins, C. 809, 7964
Mullins, C. A. 3209
Mullner, L. 3111
Mul'ov, G. B. 9993
Mumford, D. L. 3795
Munck, L. 549, 1751
Munger, H. M. 2487
Mungomery, V. E. 5545
Muñiz, H. 3777
Munk, A. 9385
Muñoz Santa María, G. 3000
Munro, I. K. 2007
Munro, J. M. 5216
Munteanu, I. 4897
Munteanu, O. 7813, 7824
Müntzing, A. 4216, 9441
Münzer, W. 4802
Munzert, M. 8893
Mur, G. 7322
Murai, T. 7145
Murakami, J. 4564
Murakami, K. 3982, 4955
Murakami, M. 6827
Murakami, Y. 2454
Muralidharan, V. K. 2733
Muranishi, S. 6283
Murashige, T. 1678
Muratov, U. 6034
Muratović, A. 7250, 9951
Muratović, S. 8171
Murawski, H. 4560, 9065
Murayama, D. 1323
Murayama, S. 7880
Murdoch, C. L. 9690
Murdock, L. 1747
Mureşan, T. 3564
Mureşan, T. 4815, 4897, 5839, 6682, 6839, 7798, 7826, 8537
Murín, A. 2308, 4661, 8401
Murkaĭte, R. I. 3940
Muro, A. Di 8977
Murphy, C. F. 972
Murphy, H. J. 7672
Murphy, J. D. 7359
Murray, B. E. 2616
Murray, B. G. 380, 6960
Murray, J. J. 9693
Murray, M. J. 852, 855, 7519
Mursagulov, M. 743
Murtasow, T. 768, 769, 798
Murtazov, T. 768, 769, 798
Murthy, K. N. 2269
Murty, A. S. 2100
Murty, B. R. 5882, 8057, 8764, 9647
Murty, U. R. 6959, 8832
Murty, V. V. S. 5062
Musaev, A. I. 8192
Musaev, D. A. 455, 1266, 1701
Musaev, M. A. 8302, 9336
Musalevski, A. 4505
Musehold, J. 7439
Musgrave, R. B. 6830
Mushtaq Ahmad 2250
Musienko, S. I. 6056
Musiĭko, A. S. 4317, 5817, 8702, 8716
Musiyenko, M. M. 7754
Muśnicki, C. 413, 7161, 7162
Mussell, H. W. 8926
Mustafaev, I. D. 2525, 4858, 8636
Mustafaev, S. A. 7998
Mustanov, G. 8001
Mustăţea, D. 3838
Mustea, D. 4334, 4986
Muszyńska, K. 183, 4261, 4905
Muszyński, S. 928
Mut, M. 6304
Muthukrishnan, C. R. 8186
Muthusamy, M. 6167
Muyassar Majeed 4264
Myakushko, Yu. M. 4049
Myers, O., Jr. 8722
Myślicka, Z. 1354
Nabiev, R. 6637
Naboĭshchikov, A. M. 5735, 9434
Nabokov, I. G. 6007, 7969
Nacea, M. 9274, 9309
Nad', M. 9586
Nagai, H. 3161
Nagaich, B. B. 1247
Nagamatsu, T. 1155, 1156
Nagamitsu, M. 4202, 4203
Nagao, T. 3815
Nagarajan, K. 1145, 1753
Nagarajan, V. 5899
Nagata, T. 90, 829, 5577
Nagatomo, T. 4525
Nagayoshi, T. 150
Nagel, C. W. 5440
Nägeli, C. W. 8392
Naghiu, V. 5749, 8319
Nagi, K. S. 411, 1909
Nagibin, Ya. D. 1701
Nagl, K. 993, 3307, 3311
Nagl, W. 731, 7460, 7550, 7557, 10137
Nagle, E. 8747
Nagle, E. F. 8747
Nagorskaya, M. D. 5989, 9747
Nagovitsina, A. V. 6968
Nagovitsyna, A. V. 6988
Nagy, A. H. 2727
Nagy, C. 4940
Nagy, G.-né 1504
Nagy, M. 9586
Nagy, S. 634, 635, 1422, 5385
Naĭdenov, G. 3572, 9550
Naĭdenov, L. N. 3091
Naĭdenova, I. N. 8227
Naĭdenova, K. A. 7854
Naidu, B. 8730
Nainawatee, H. S. 4245
Nair, R. G. 3800, 3801
Nair, T. V. R. 1034
Naito, N. 2618, 7146
Nakada, T. 4856
Nakagahara, M. 5101, 6919
Nakagahra, M. 6919
Nakagawa, S. 7278
Nakai, Y. 2531, 3498, 3522
Nakajima, F. 4564
Nakajima, G. 128
Nakajima, J. 5256, 9883
Nakajima, K. 6240
Nakamura, A. 3818, 5267, 7145, 9890
Nakamura, S. 5506
Nakao, S. 2750
Nakaseko, K. 4437
Nakata, K. 1336
Nakayama, H. 5918
Nakayama, R. 7911
Nakazawa, N. 5358
Nalepa, S. 183, 271, 959, 961, 5003, 5799, 5861, 7703
Naletova, O. D. 4588
Nalewaja, J. D. 2691, 4998
Nam, V. M. 8848
Namai, H. 6358
Namazov, Z. A. 7398
Nambiar, K. P. P. 3042
Nambiar, P. K. V. 5325, 6170
Namboodiri, K. M. N. 5914
Namekata, T. 9140
Namkoong, G. 1515, 5482
Nancheva, R. 3476
Nandpuri, K. S. 571, 5520, 5525, 6348
Naneva, D. 5178
Nano, G. M. 4750, 6490
Nanson, A. 5452
Naphade, D. S. 296, 9656
Narahari, P. 5919, 5920
Narain, A. 2175, 8623
Narain, P. 4
Narasimha Rao, D. V. 1913
Narasimha Rao, N. 796
Narayana, D. 664
Narayanan, R. 1390
Narayanan, T. R. 9316
Narayanan Unnithan, D. 5914
Narayanasamy, P. 6926
Narayanaswamy, B. C. 793
Narayanaswamy, P. 1934, 9669
Narbut, S. I. 6349, 10076
Narendra Gupta 889
Naresh, J. S. 6444
Narimov, S. 7066, 7079
Narula, P. N. 3447
Narvaez, I. 100
Narziss, L. 274
Nascimento, I. F. 1349
Nascimento, I. F. do 1349, 6143
Nashkov, D. 8681
Nashkova, O. 8681
Nasimuddin Ahmed 6070
Naskidashvili, P. P. 4849, 5717
Nasrallah, M. E. 6365
Nass, H. G. 1733
Nassar, S. H. 5564, 7390, 7426, 7457
Nassef, H. S. 5424
Nassi, M. O. 5327
Nasta, A. 7552
Năstase, O. 7379, 8277, 9212, 9222
Nasyrov, Y. S. 10154
Nasyrov, Yu. S. 4757
Natali, S. 6295, 9168
Natarajan, C. 1423
Natarajan, K. S. 1968
Natarajan, S. 497
Natarajan, T. V. 5906
Nath, J. 6940
Nath, N. 908
Nath, P. 9239
Nath, V. 840
Nathanael, W. R. N. 1430
Nathawat, K. S. 8088
Nationaal Instituut voor Brouwgerst, Mout en Bier – TNO 5868
National Agricultural Advisory Service, UK 6562
National Institute of Agricultural Botany 6580
National Institute of Genetics, Japan 3331
National Vegetable Research Station 9204
Natour, R. M. 4264
Nátr, L. 2706, 9630
Naumann, W. D. 7299
Naumov, A. A. 4865
Naumova, G. A. 3066, 10015
Naumova, I. P. 5367
Navolotskiĭ, A. V. 2515
Nayak, P. 5104
Nayar, G. G. 8931
Nayar, K. M. D. 9649
Nayar, N. M. 3202
Naylor, A. W. 8503
Nazarenko, A. 419
Nazarenko, B. 419
Nazarenko, B. P. 7016
Nazarenko, K. S. 3356, 7682
Nazarova, N. F. 6239
Nazir Ahmad 9816
Nazir Muhammad Merchant 564
Nazirov, N. N. 4454, 6048, 7082, 7995, 9822
Nazmul Haq 3212
N'Diaye, S. M. 1601
Neagu, M. 3079, 6277, 8215
Neagu, M. I. 3884
Neal-Smith, C. A. 49
Neboka, V. S. 9458

Nechiporchuk, I. D. 5192, 7970, 9780, 9781
Nechiporenko, V. N. 2270
Nedbálková, B. 2804
Neenan, M. 9552
Nefedov, A. V. 8610
Negi, P. S. 1612
Negi, S. S. 1049, 1464
Negmatov, M. 460
Negoescu, M. 5745
Negovskiĭ, N. A. 1315, 1316, 8952, 8953, 8956, 8958, 9867, 9871, 9876, 9882
Negre, R. 4091
Negrea, I. 9763
Negrean, G. 5954
Negreanu, A. 6277
Negreanu, E. 3079, 3088, 3919, 4620, 8212
Negrilă, A. 4566, 6260
Negru, A. 3838
Negru, P. V. 5441
Negulescu, F. 2592, 5784, 7762
Nei, M. 1657
Nelson, C. J. 9706
Nelson, D. C. 3724, 3725
Nelson, J. M. 1324
Nelson, J. S. R. 2433
Nelson, J. W. 2239, 8199
Nelson, L. R. 256, 2595, 9406
Nelson, M. R. 1388
Nelson, R. R. 1878, 6850
Nelson, W. L. 101, 4202, 4203
Nelson, W. W. 7483
Nema, K. G. 170, 175, 4418
Németh, K. 3683
Németh, M. 657, 5420
Nemky, E. 7341
Nemlienko, F. E. 9611
Nemlīyenko, F. Ye. 6853, 9611
Nene, Y. L. 6444
Nepomuceno, J. 1926
Neronova, N. L. 2998
Nery, H. Del 1471
Nesbitt, W. B. 2253, 3095, 4627
Nesterenko, A. G. 4471
Nesterov, V. G. 8244
Nesterov, Ya. S. 3854, 6194
Nesterova, P. V. 9849, 9857
Nettancourt, D. de 1731, 4708, 7440
Nettancourt, D. J. M. de 3361, 3807
Nettevich, E. D. 967, 4190, 4865, 4867, 5710, 5853
Netzer, D. 7406
Neudoerffer, T. S. 8688
Neuffer, M. G. 8690
Neumann, K. H. 9121
Neumann, L. 1353
Neururer, H. 3102
Neve, R. A. 6145
Nevinnüh, V. A. 8026
Nevinnykh, V. A. 6058, 8026, 9834
Nevol'ko, O. D. 5895
Nevryanskaya, A. D. 4957
New Scientist 2414, 5503
New Zealand Department of Agriculture 8468, 8470
New Zealand Journal of Agriculture 516
New Zealand Potato Bulletin 427
Newbery, R. J. 4613
Newell, C. A. 7832
Newinnich, W. A. 8026
Newsom, L. D. 474
Newsome, Y. L. 3203
Newton, A. 642
Newton, H. C. 5501
Newton, L. E. 487
Ng, C.-M. 2739
Ng, T. J. 4712
Ngundo, B. W. 1946
Nica, A. 3768, 6450
Nica, F. 7513
Nicholas, J. C. 1611
Nickell, C. D. 1605
Nicklas, R. B. 31
Nicol, H. I. 2819
Nicolae, I. 4738, 6455, 6456, 6873
Nicolae, V. 6124
Nicolaescu, M. 3870, 5617
Nicolescu, L. 9274, 9309
Nicolescu, M. 6653
Nicotina, M 3849
Nicotra, A. 9099, 9136
Niederhauser, J. S. 440
Niekerk, B. P. van 3562
Nielsen, G. 6868
Nielsen, J. 2617
Nielsen, L. W. 3744
Nielson, M. W. 9723
Nieuwhof, M. 3965
Nigam, P. K. 1641
Nigerian Institute for Oil Palm Research 3840
Nijhawan, D. 201
Nikandrova, M. L. 5232, 8928
Nikiforov, A. N. 8600
Nikiforova, I. L. 5858
Nikiforova, N. I. 3500
Nikitchina, T. V. 4990, 5805
Nikitenko, G. F. 6667
Nikitin, V. V. 56
Nikitina, K. V. 4041
Niknejad, M. 1602, 3250, 6481, 9625, 10141
Nikokiris, P. N. 8000
Nikolaenko, N. V. 8042
Nikolaev, M. E. 3549
Nikolaeva, M. G. 5372
Nikolaeva, V. A. 1076
Nikolić, D. 3353
Nikolić, M. 8144
Nikolić-Vig, V. 4511
Nikolov, S. 4950
Nikoro, Z. S. 8395
Nikulicheva, F. 1035
Nikulina, N. I. 9754
Nilan, R. A. 9625
Nilov, G. I. 1473
Nilsson, B. 5618, 6785
Nilsson-Ehle, H. 6661, 6782, 7683, 9361, 9367
Nilsson, K. 1599, 1600, 4103
Nimchenko, P. V. 6058
Ninan, C. A. 6243
Ningappa, M. S. 8122
Nip, W. K. 6368
Nishida, T. 3900
Nishijima, Y. 7146
Nishikawa, K. 142, 143
Nishimura, K. 704
Nishimura, S. 5107, 5364
Nishiyama, Y. 4564
Nisimura, K. 704
Nissinen, O. 1173
Nita Saha 8317
Nitsch, J. P. 2438, 7140
Nitzschke, U. 6102
Nizam, J. 7543
Nizharadze, A. N. 4629
Nobs, M. A. 4404
Noda, K. 5766
Nohejl, J. 6022, 8903
Nollendorf, A. F. 9909
Noma, M. 2455
Nomura, N. 4475
Nordby, H. E. 634, 635, 1422, 5385
Norden, A. J. 7182, 9920
Nordquist, P. T. 297, 9651
Norik, I. M. 121
Normann, R. 3472
Normov, A. A. 3591
Noronha-Wagner, M. 1346, 3452
Norrington-Davies, J. 276
Norris, R. F. 165
Norše, D. 2672
Norsk Landbruk 7850
North, C. 710, 1730
North Dakota Farm Research 5687, 5707, 5723, 5783, 6309, 6660, 6861, 7679, 8262
North of Scotland College of Agriculture 1697, 6599, 6605
Northcote, D. H. 4109
Northern Nut Growers Association 8231
Norton, J. D. 824, 5504, 9282
Norton, R. A. 2246, 5359
Nosova, P. P. 2924
Nosul'chak, V. A. 10046
Noto, G. 5408
Nour, A. H. M. 2093
Nova Scotia Fruit Growers' Association 7213
Novák, F. 7201
Novák, F. J. 3149, 6118
Nover, I. 2604, 4358, 4360
Novikova, M. V. 6687
Novikova, R. A. 4703
Novitskaya, E. I. 6411
Novoselova, A. S. 4420
Nový, J. 2553
Nowacki, E. 405, 406, 3594, 4949, 7645
Nowak, J. 9786
Nowak, M. E. 7393
Nowicki, E. 407
Nozeran, R. 8410
Nuamah, G. E. A. 6144
Nucé de Lamothe, M. de 4596, 4597
Nüesch, B. 5127, 6934, 9739
Numić, R. 4067
Nunes, M. A. 2960, 3825
Nureña, M. A. 5089
Nureña S., M. A. 5910
Nuret, H. 1013
Nushikyan, V. A. 7431
Nuttall, V. W. 765
Nuzhdin, N. I. 268
Nyéki, J. 5360
Nyquist, W. E. 8480
Nys, L. 7020
Nyuppieva, K. A. 8895
O, S. D. 3051, 4600
O, S. H. 2600
Oakes, A. J. 1313, 2760, 2778
Oakes, G. L. 6403
Oakes, J. Y. 2791
Oba, K. 692, 702, 703, 705, 1497
Obajimi, A. O. 9726
O'Bannon, J. H. 2224
Obaton, M. 2809, 8347
Obcemea, W. N. 4390
Obchinnikova, M. F. 3349
Obe, G. 2436, 5552
Obendorf, R. L. 1097, 3583
Oberle, G. B. 606
Oberle, G. D. 6251
Obersht, V. 7804
Obersht, V. M. 8693
Oblisami, G. 7676
Oboladze, Sh. T. 10133
Obraztsov, A. S. 1752
Obregón, G., P. 1837
Obregón, P. 4283, 4970
Obretenov, Ts. 6252
O'Brien, M. A. 1977
O'Brien, M. J. 437, 439, 7028
Obukhovich, E. M. 1038
Ocampo R., F. 5289
Ocheşanu, C. 4871
Ocheşanu, C. 5231, 6054
Ochoa, C. 2024
Očkay, Š. 7818
O'Connor, L. J. 501
Oczoś, A. 5277, 5280
Odabash'yan, F. M. 9989
Odintsova, I. G. 1993, 4908
Oduardo, M. 2792, 2793
Odvody, G. N. 3647
OECD Agricultural Review 2651
Offutt, M. S. 1177
Ogada, F. 4293
Oganesian, V. V. 4236
Oganesyan, G. V. 6638
Oganesyan, M. G. 4208
Oganesyan, R. P. 10110
Oganesyan, V. V. 4213, 4236
Ogašanović, D. 8169
Ogbuji, R. O. 1742
Ognyanova, A. 2406, 4762, 6404, 7428
Ogren, W. L. 1074
Ogurtsova, N. A. 1085, 6833
Ogłaszewska-Jurga, H. 3544
Oh, S. D. 3051
Oh, S. H. 2600
Ohashi, Y. 8070
Ohata, T. 3900
Ohba, K. 692, 702, 703, 705, 1497
Ohio Report on Research and Development 227
Ohkawa, M. 2201, 9092
Ohm, H. W. 9522, 9524
Ohnesorge, B. 8608
Ohta, N. 3141
Ohta, T. 1667, 3267
Ohta, Y. 190, 2657, 3332, 3334
Ohyama, K. 7140
Oinuma, T. 3818
Oitto, W. A. 3877, 8159
Ojeda, H. R. 2158, 2159, 2160, 2161
Ojima, M. 4060
Ojomo, O. A. 2371, 7474
Oka, H. 2749, 3335, 3336
Oka, H.-I. 2749
Oka, H. I. 3335, 3336, 5575
Okabe, S. 4863, 5037, 5077
Okabe, T. 5136
Okada, K. A. 7961
Okada, S. 698, 700
Okanenko, A. S. 9869
Okawa, M. 2201, 9092
O'Keefe, R. B. 415
Okhtenko, S. N. 9907
Okigbo, B. N. 8669
Oknina, E. Z. 9081
Okolelova, A. P. 607
Okolitenko, V. A. 1445
Okon, Y. 846
Okuno, C. 318
Okuno, T. 318
Okuse, I. 8140
Olah, L. 6755
Olah, L. V. 36
Olaru, M. 9274, 9309
Olby, R. 6516, 8389
Oldenburger, J. 3729
Oleĭnikova, T. V. 8615, 9496
Olimpienko, G. S. 6870
Oliveira, D. A. 3906
Oliveira, L. M. de 3802
Oliver, B. F. 344
Oliver, S. 1816
Olivera, A. de J. 2153
Olivera Begazo, J. C. E. 3802
Olivier, G. 10050
Olivieri, A. M. 8288
Olivieri, G. 8404
Olizarowska, K. 3612, 5014, 8758
Olmo, H. P. 1464, 4538
Olympienko, G. S. 6870
Omar, A. 2686, 6878, 8738
Omar, A. M. 1042, 4262, 9642
Omel'chenko, L. I. 9503
Omel'chenko, M. V. 2061, 8004
Omirova, G. K. 4866, 8541, 8543
Omura, T. 319, 4378, 4379, 6919
Ondřej, M. 9311
Ong, S. H. 580
Onishchenko, G. E. 891
Onkar Singh 2901, 7108
Ono, S. 851, 1923, 3253, 4088, 9672
Ono, S.-I. 1923
Onofeghara, F. A. 4396
Onofrii, M. 5697, 8672
Onufreĭchik, N. G. 4567
Ooi, S. C. 562, 7176, 7177
Oommen, P. K. 5771
Oosten, H. J. van 1414
Oprea, D. D. 3914
Oprea, F. 6212
Oprea, S. 3079, 9942
Oprea, Ş. G. 8209, 8214
Oraby, F. T. 6824
Oram, R. N. 4793
Orav, I. S. 5004
Orav, L. 1885
Orav, T. 267, 1885

Orav, T. A. 5004, 5856
Orbán, V. 6814
Ordosgoitty, A. 3224
Ordosgoitty F., A. 4987, 7471
Orekhova, S. A. 9536
Orel, L. I. 3547, 10178
Orel, V. 861, 4096, 8380, 8416, 8501
Orellana, H. 7034
Orenčák, L. 5744
Őrffy, L. 1051
Orkhova, V. 9133
Orlenko, E. G. 1494, 3936, 10060
Orloci, L. 8418
Orlov, V. N. 998, 999, 1093, 1169, 4185, 4399, 5818, 8799, 9414
Orlov, Yu. S. 7821
Orlovskiĭ, N. I. 1315, 1316, 3782, 9851, 9856, 9874
Orlyuk, A. P. 2523, 5734, 7707, 7722, 8590, 8620, 9513
Ormos, I.-né 8114
Ormrod, D. P. 8031
Orozco, S. H. 831
Orozco S., S. H. 2375
Ortega, A. 4299
Ortega, A. V. 5026
Ortega Y., S. 2362, 8325
Orth, R. A. 1020, 4886, 9477
Ortín Rodríguez, L. 981
Ortuño, A. 7283
Orudzhaliev, N. G. 8275
Ory, R. L. 7187, 7189
Osawa, I. 801
O'Shea, J. 9552
Oshevnev, V. P. 8957
Oshima, T. 4648
Oshkaya, V. P. 3942
Osiecka-Stefaniak, J. 2314
Osińska, B. 2089
Osińska, M. 5188
Osipchuk, A. A. 3732
Osipov, A. V. 9183, 9377
Osipov, Yu. F. 8533
Osipova, E. I. 4182
Oškaja, V. 3942
Oşlobeanu, M. 3073, 3918
Osman, A. E. 7101
Osman, H. O. A. 7086
Osman, M. 4593
Osmond, C. B. 4720
Osokina, A. 4687
Ostapenko, V. I. 9096
Ostapiuk, I. 1541
Oste, C. A. 2233
Ostrikova, V. M. 2188
Ostrowska, B. 2214
Ostrzycka, J. 8311
O'Sullivan, T. J. R. 5847, 5848
Oswalt, D. L. 9652
Oswalt, E. S. 9799
Ota, N. 3141
Ota, T. 1667, 3267
Ota, Y. 3332, 3334
Otake, S. 364
Otani, H. 5364
Otani, S. 7692
Oteifa, B. A. 5227
Othieno, S. M. 1946
Otoul, É. 8836
Otsuka, N. 7030
Otsuka, Y. 1847
Ottenbacher, A. 8147
Otto, B. E. 7445
Ötvös, Z. 9241
Otłowska, D. 4922
Ou, S. H. 4395, 5056, 5061
Ouchi, K. 4376
Ouellette, G. B. 1528
Ourecky, D. K. 600, 4606, 5410, 10001
Ovchinnikova, M. F. 9250
Ovdiyenko, A. P. 8626
Overchuk, V. I. 7007, 9772
Overman, M. A. 374, 1915, 9657
Overton, J. R. 9553
Ovsyannikova 4492
Ovsyannikova, O. V. 4492
Ovsyannikova, O. V. 8061
Owadally, A. L. 2735
Owen, C. H. 3414, 3415
Owen, H. 5016, 6887, 6888
Oyama, K. 7140
Oyebade, I. T. 6142
Øyen, J. 1232
Oza, A. M. 5771
Ozbun, J. L. 2487
Ozeretskovskaya, O. L. 10123
Özkut, S. 3933
Pacetto, M. 4015
Pacheco G., J. J. 3234, 5310, 5323
Pachpol, L. S. 4749
Pacini, E. 4708
Packard, M. K. 33
Pacolák, Š. 2125
Pacucci, G. 7777
Padaganur, G. N. 307
Padalia, C. R. 1936
Padda, D. S. 5489, 6174
Padmanabham, S. Y. 7892
Padmanabhan, D. 497
Padmanabhan Nambiar, K. P. 1427
Padmanabhan, S. Y. 332, 334, 1166, 7893
Pădureanu, T. 6213, 6223
Paglietta, R. 9148
Paĭziev, P. 1277, 9810, 9811
Pakhomova, N. P. 9944
Pakistan Cottons 9801
Pakudin, V. Z. 5840
Pál, G. 4197, 6747, 7736
Pál, Gy. 4197, 6747, 7736
Pal, M. 800
Pal, R. N. 1049
Pala, J. 6872
Palakarcheva, M. 3812, 4490, 6113
Pălămaru, E. 7956
Palaniswamy, G. A. 3225
Palevitch, D. 763
Paliatseas, E. D. 1306
Paliĭ, A. F. 5826
Palilaŭ, A. Ī. 5123, 8800, 9303
Palilova, A. N. 1858
Palilova, L. S. 3584
Palitti, F. 8404
Paliwal, K. V. 2744, 9604
Páll, O. 7023
Pallas, J. E., Jr. 7188
Palma V., R. 3214
Palmer, G. H. 7849
Palmer, J. M. 1749
Palmer, L. T. 1753
Palmer, R. G. 1616
Palmer, T. P. 1999
Păltineanu, R. 4066
Paltrinieri, G. 5496
Pamfil, C. 5166, 5202, 5807, 5975, 6820, 6980, 7808, 7974, 8703
Pană, C. 4393
Pană, P. 5842
Panaĭotov, I. 4218
Panaĭotov, I. T. 3437
Panait, E. 6267, 7325, 9952
Panasevich, K. O. 5419
Panasyuk, M. G. 7267
Panasyuk, V. S. 5936
Panayotov, I. 3437, 4218
Panchakshariah, S. 6914
Panchal, Y. C. 4374
Panchenko, N. F. 5019
Panczner, J. 2990, 3233
Panda, N. 7468
Panda, S. C. 7884, 8789
Pande, G. K. 6877, 10132
Pandey, B. P. 2130, 5883
Pandey, K. K. 6499, 8990
Pandey, R. P. 5176
Pandya, S. C. 8365
Panella, A. 3698, 3952
Panfil, C. 5202
Pangallo, G. S. 371
Panichkin, L. A. 8621
Panigrahi, C. 2175
Panina, E. B. 5974
Panke, S. 9571
Pankhurst, C. E. 7949
Pankiw, P. 3713
Pankrat'eva, I. A. 1827
Pannonhalmi, K. 7438
Pannonhalminé Patai, M. 7462
Panse, E. 207
Pantulu, J. V. 3635, 6898
Panyło, M. 5803
Panza, J. D. 7103
Paolillo, D. J., Jr. 1073
Papastephanou, C. 1577
Papathanasiou, G. A. 1787
Papentin, F. 6536, 6537
Papian, S. S. 9994
Paponova, I. T. 9252
Papoyan, F. A. 8321
Papp, E. 934, 1558, 2336, 5509, 8296
Pappelis, A. J. 10080, 10081
Papworth, D. G. 6524
Papyan, S. S. 9994
Paradisi, U. 9176
Parameshwar, N. S. 6036
Parameshwarappa, R. 7988
Parameswar, N. S. 6459
Parameswaran, P. 2896
Parameswarappa, N. 9668
Parao, F. T. 331, 5073
Paratori B., O. 6804
Pardee, W. D. 3374
Pärdi, J. 547, 1776
Parduman Singh Bedi 4903
Parenti, R. 4494
Pares, R. D. 3892
Parfent'ev, M. G. 5762, 8599
Parijs, R. van 4743
Parish, J. A. 9480
Park, K. K. 7879
Park, K. T. 4053
Park, K. Y. 3751
Park, S. H. 5109
Parkash, V. 9487
Parker, J. H. 6186
Parker V., I. 6804
Parkhomenko, A. K. 8633
Parks, W. L. 2655
Parliman, B. J. 4553
Parnia, C. 7273
Paroda, R. S. 2704, 4948, 5711
Parodi, R. A. 7869
Parragh, J. 2981
Parrott, D. M. 2036, 3748
Parrott, W. L. 2500
Parsons, R. F. 2276, 2277, 9188
Parthasarathy, B. 6648
Parthasarathy, N. 5035
Partridge, J. E. 3240
Parui, N. R. 6487
Parvatha Reddy, P. 6129
Parvin, P. E. 9690
Parygina, M. K. 9769
Parynow, S. 1437, 9946
Pascale, A. J. 5582
Pasenkov, A. K. 4594
Pashkar', S. I. 1075, 1085
Pashkar', T. E. 8684
Paskar', P. A. 6634
Passet, J. 1648, 7522
Pastor Piñeiro, J. 5169
Pastýrik, L'. 2204
Paszkowska, I. 8280
Paszowski, W. 7622
Patel, G. J. 4732, 7129
Patel, N. P. 5097
Patel, O. P. 8338
Patel, P. N. 7489, 10139
Patel, R. H. 8094
Patel, R. K. 7895
Patel, R. M. 7477
Patel, V. J. 7686
Paterniani, E. 2645, 4278
Pathak, A. N. 1089, 1090, 7486
Pathak, M. D. 5064, 5068
Pathak, S. P. 5434
Pathiratne, L. S. S. 6179
Patidar, G. L. 4365
Patil, J. A. 5592, 6352
Patil-Kulkarni, B. G. 5031, 9663
Patil, M. B. 292
Patil, M. S. 1284, 6042, 8003
Patil, P. S. 8362
Patil, R. B. 5140
Patil, S. J. 3575, 5813
Patil, S. V. 71, 4872
Patil, V. P. 6, 7530, 7531
Patkar, M. B. 438
Patkhullaev, S. 5829
Paton, D. M. 3943
Pătrașcu, M. 8985
Patrikeeva, M. V. 9790, 9791
Patterson, B. D. 41
Patterson, F. L. 81, 2796, 9454, 9522, 9524
Patterson, L. A. 3414, 3415
Patyna, H. 3544
Paul, J. 1651
Paule, L. 5470
Paulech, C. 4174
Pauley, S. S. 5479
Paulić, N. 7257
Paulsen, G. M. 3230, 6907
Paulus, K. 6014
Paulyus, I. 6052
Păun, E. 8367
Păun, L. 6710
Păunel, F. 8324
Păunel, I. 6027
Păuneț, M. 5761
Paunović, S. A. 3033, 7261, 8168, 8169, 9104, 9128
Pausheva, Z. N. 3543
Pausheva, Z. P. 1170
Pavek, J. J. 2842, 2849, 2862, 2869
Pavićević, L. 3487
Pavlek, P. 9228, 9268
Pavlov, A. V. 2206
Pavlov, P. A. 3494, 4830, 5775
Pavlova, M. A. 3049
Pavlyshin, M. N. 5742
Pavlyuk, N. T. 8588, 8597
Pawlak, A. B. 4265
Paxton, J. D. 7490
Payak, M. M. 246
Payne, R. C. 5460
Pazourková, Z. 8402
Pea growing Research Organisation 7491
Peaden, R. N. 397
Peare, R. 2857
Pearson, O. H. 734
Pechorina, A. N. 6870
Pedersen, M. W. 1984, 9724, 9725, 9734
Pederson, V. D. 9621
Pedigo, L. P. 835
Pedrosa, F. de O. 7924
Pedrotti, F. 65
Pegg, G. F. 842
Pegg, K. G. 4684
Peirce, L. C. 10117
Peisker, M. 3380
Pejkić, B. 2212, 3885, 7265, 8176
Pejović, S. 7276, 8194
Pekanović, V. 8345
Pelaghia, C. 2329
Peleg, N. 75
Pelletier, G. 2113, 5797
Peloquin, S. J. 2632, 2845, 2847, 2848, 2854
Pena, A. 4621
Pena, A. D. 4615
Peña, J. A. 1916, 2720, 2721, 2722, 5028, 7871, 7872
Penkhae Patanothai 653
Penner, D. 4691
Pennock, W. 1424, 7288
Penny, L. H. 3556, 8660
Penrose, L. J. 3892
Penteado, A. de F. 1834
Pepin, H. S. 10016
Perches E., S 2882
Peregudt, M. F. 10066
Pereira, A. A. 1299
Pereira, A. E. 4698
Pereira, O. G. 2627
Perekhodkin, L. P. 8148
Perera, P. S. S. 8121
Peresipkin, V. F. 8357, 9639
Peresypkin, V. F. 8357
Peretyat'ko, N. A. 511, 9874
Peretyat'ko, V. G. 511

Peretyat'ko, V. G 9856
Pereverzev, G. A. 4461
Pérez Antich, E. 5241
Perez, C. M. 5925
Pérez Zamora, A. 7156
Perju, T. 4334, 4986
Perkins, E. 7823
Perkins, I. 5499
Perkins, J. M. 10, 2923, 7637
Perkins, R. M. 8189
Perko, J. 573
Perna, K. 5491
Perraudin, G. 3857
Perrin, M. E. B. 1394
Perry, L. J., Jr. 5955
Perry, S. K. 814
Pershutina, O. A. 5193
Persiel, F. 4744
Person, C. 2716, 2717, 2718
Persson, A. 7353
Peruanskiĭ, Yu. V. 5760, 5834
Perumal, R. S. 1423, 9996
Perunova, T. V. 8749
Perur, N. G. 5112
Perutík, R. 9529
Pešek, J. 945
Peševska-Sotirova, V. 9225, 9226
Peševska, V. 9226
Pessanha, G. G. 7465
Pestova, T. M. 8877
Pet, G. 4007
Petelina, N. N. 5934
Peters, L. 4744
Peterson, C. E. 717, 4658, 6388
Peterson, G. A. 8734, 9621
Peterson, L. A. 6416
Peterson, L. C. 3734, 3735
Peterson, L. E. 3185
Peterson, M. L. 1780
Peterson, P. A. 1841
Petinov, N. S. 8602
Petkov, G. 2260, 3069
Petkov, P. S. 1114, 10152
Petkova, S. 8681
Petković, S. 2521
Petr, J. 2508
Petrák, Z. 2096, 2906, 8048, 8049
Petrescu, M. 3838
Petrič, M. 7817, 8704
Petříček, D. 5297
Petrosian, H. H. 6702
Petrossian, A. A. 1469
Petrossian, A. S. 5714
Petrosyan, A. A. 1469
Petrosyan, A. S. 5714
Petrosyan, É. A. 6702
Petrosyan, H. H. 6702
Petrosyan, Zh. A. 5443
Petrov, D. F. 2640, 8413
Petrov, G. 7677
Petrov, G. E. 9489
Petrov, Kh. 798
Petrova, E. F. 9992
Petrova, G. G. 9760
Petrova, K. V. 390
Petrova, M. V. 1594
Petrova, V. 8368
Petrovic, J. 2553, 6727
Petrovska, D. 9569
Petrovska, V. 9225, 9226
Petrovskiĭ, V. V. 2430
Petrovsky, V. V. 2430
Petrow, C. 798
Petrukhina, I. I. 3988
Petrunov, S. 6199
Petrunova, D. 4824
Petrušev, S. 3004
Petrushev, S. 3004
Petty, J. A. 693
Petzold, H. 3032
Peverly, J. H. 4326
Pezhemskaya, T. A. 6738
Pfahler, P. L. 6806, 8710
Pfeifer, R. P. 8742, 9631
Pflüger, R. 3683
Phadnis, B. A. 2317
Phadnis, N. A. 576, 1462
Phadtare, S. G. 442
Phan hoang Dong 7365
Phatak, S. C. 4152, 4154, 4155, 4711, 8297
Philippine Sugar Institute 2892
Phillips, D. A. 5549
Phillips, R. L. 1854, 4942
Phillips, S. A. 4733
Phillips, S. M. 5022
Phillipson, J. D. 9897
Phul, P. S. 5219, 7775
Piacsek, A. 4914
Pianka, E. R. 1658
Piazza, R. 5515, 9234, 9254
Picard, D. 8807
Picard, G. 605
Pich, I. 4066
Pichenot, M. 8120
Pickersgill, B. 2174
Pickett, R. C. 1918, 9652
Picu, I. 4035
Piech, J. 1294, 2071
Piech, M. 7687
Pielas, Z. 4269
Pieniążek, S. A. 5181, 9946
Pieri, G. 3070, 3071
Pierik, R. L. M. 3288
Pietkiewicz, J. 6019, 7031
Pietrarelli, J. R. 2148, 2151
Pîka, M. A. 7007, 9772
Pike, L. M. 3989
Pilipenko, F. S. 1509
Pillai, R. V. 5398
Pil'nikova, E. M. 5878
Pimenova, I. E. 6989
Pimentel, D. 1584
Pinckard, J. A. 463, 8006
Pineda, T. A. 347
Pinthus, M. J. 6656, 6679
Pintilie, C. 6465
Pinto, B. G. 6386
Pinto Cortés, B. 1255, 1562, 1585, 2172
Pinto, M. F. 2142
Pînzaru, D. 7956
Pioruński, J. 7979
Piotrowski, W. 5188, 7985
Piovarči, A. 6812
Pipia, A. D. 1410
Pipie, A. 8349
Pipinis, I. A. 1391
Pipinys, J. 1391
Piqueras, M. J. 3525
Pirakovskiĭ, I. A. 6794
Pîrjol, L. 8104
Pîrlea, T. 4400
Pironi, W. 746
Pîrvu, T. 3485, 4238, 5761, 7761
Pisani, P. 3014
Pisani, P. L. 7244, 9057
Pisarev, B. 5997
Pisarev, V. E. 1743, 6663
Pishchugin, I. N. 7056
Pitirimova, M. A. 2696
Pitiș, S. 6432, 8340
Pittarelli, G. W. 1338
Pițuc, P. 6274
Pivovarova, V. V. 6667
Plaisted, R. 1230
Plaisted, R. L. 2866, 3734, 3735
Plamenac, M. 2249, 8202
Plank, J. E. Van Der 1249
Plant Introduction Review 50
Plant Introduction Review, Australia 6645
Plant Introduction review, Australia 6647
Plant Introduction Review, Australia 6939
Plant Varieties & Seeds Gazette 2502, 3726, 4652, 9700
Planters' Bulletin 581
Plarre, W. 5672
Plewa, M. P. 5816
Plock, H. 616
Ploegman, C. 3825
Ploper, J. 1110, 7962
Plotnikova, J. M. 7770
Plotnikova, Yu. M. 7770
Plucknett, D. L. 8252
Pochaba, L. 5799, 7703
Pochard, E. 574, 575, 1538, 2170
Pochitonow, Z. 5187
Poddubnaya-Arnoldi, V. A. 1333
Poddubnaya-Arnol'di, V. A. 1333, 2927, 5269
Podkuĭchenko, G. V. 7167, 7168, 7169
Podoleanu, N. 3914
Podozerskiĭ, S. N. 7058
Podzharova, Z. S. 6323
Poe, S. L. 5415
Poehlman, J. M. 1901, 2372, 6431, 8623, 10140
Poey, D., F. R. 4961
Poey, F. R. 8691
Pogorletskiĭ, B. K. 2982, 5314, 6155
Pogorlets'kiĭ, B. K. 6160
Pogorletskiĭ, B. K. 9009
Pogorlezky, B. K. 2982
Pogosyan, K. S. 5441
Pogosyan, S. A. 3106, 9167
Pogrebnyak, P. L. 910, 6627
Pohl, R. W. 354
Pohlheim, F. 706, 5596, 6326
Poitout, R. 7613
Pojarová, H. 2580
Pokinbara, V. A. 591
Pokle, Y. S. 825, 4047, 4724
Pokorný, V. 2612, 3276, 5002, 6871
Pokrovskaya, N. F. 5834, 8560, 9484
Polák, J. 817, 6975, 8049
Polák, Z. 450
Poli, V. 6343, 6426
Polishchuk, L. K. 9080
Polishvaĭko, M. N. 5986, 6725
Polkanova, T. P. 5989, 9747
Pollacsek, M. 1065, 4944
Pollhamer, E. 1111
Pollmer, W. G. 240, 4966, 5674, 8714
Polnar, M. 5456
Polovanova, L. 7984
Polovyanov, T. G. 9974
Polozova, N. L. 8534
Polson, D. E. 9293
Poltarev, E. M. 4894
Polunin, O. 8372
Polyakov, I. M. 1857
Polyakova, E. V. 1838
Polyanskaya, L. I. 3506
Poma Treccani, C. 9229
Pomeranz, Y. 133, 5009
Pomeroy, M. K. 7756
Pommer, G. 5130
Pomogaĭbo, V. M. 4920
Pomohaci, N. 3914, 4628, 8224
Ponamaryov, A. N. 6941
Poneleit, C. G. 221, 1836, 2644, 8637, 9554, 9579
Ponert, J. 6963
Pongprasert, S. 5067
Poniedziałek, W. 5413, 6222, 6298
Ponnaiya, B. W. X. 796
Ponnamperuma, F. N. 5092
Ponomarenko, V. V. 3007, 3865
Ponomarev, A. N. 6941
Ponomarev, V. F. 9184
Ponomareva, A. P. 5201
Pons, A. 3938
Ponte, J. J. da 7093
Pooni, H. S. 295
Poornachandrudu, D. 9664
Pop, E. 4887, 5703
Popa, E. 7325
Popa, F. 4051
Popa, G. 4035, 6452
Popa, P. 3113
Popa, T. 5745
Popa, V. G. 3114
Pope, D. T. 5213
Popenoe, J. 5416
Poperelya, F. A. 5762, 8599
Popescu, A. 4082
Popescu, C. 7851
Popescu, D. 6414
Popescu, G. 3075, 10028
Popescu, G. A. 3081
Popescu, G. I. 6274
Popescu, H. 3994
Popescu, M. 6213, 6223
Popescu, Ş. 3074, 3914
Popescu, S. 6682
Popescu, V. 6027
Popnikola, N. 5475
Popov, E. 3902
Popov, G. I. 935
Popov, I. 7112
Popov, P. 1769, 3393, 3434, 3479, 4752, 4824, 4831, 7694, 7704
Popov, P. S. 1368, 8102
Popov, P. V. 1257, 2053, 7090
Popov, T. 6275
Popov, V. V. 4705, 6412
Popova, D. 572, 797, 2332, 3848, 4009, 5328, 5330
Popova, D 6172, 6415, 8310
Popova, D. G. 3177
Popova, È. V. 9913
Popova, Ĭ. 4964
Popova, J. 4964
Popova, J. M. 2636
Popova, L. 4762
Popović, A. 2583
Popović, M. 3985, 3993
Popović, Š. 2583
Popović, Ž. 3492
Popovich, F. Ya. 7957
Popovskiĭ, M. 3559
Popow, G. 1744, 3372, 3398, 6664, 6688
Poppi, G. 6147
Popravko, M. Ĭ. 9758
Populer, C. 9027
Porceddu, E. 4806
Porfir'ev, N. P. 9088
Porfir'ev, Yu. A. 6003
Porokhnya, V. 6380
Porreca, G. 3402, 3451, 4227, 5728
Porsche, W. 3481, 7677
Porter, D. M. 7194
Porter, F. A. E. 6476
Porter, J. W. 1577
Porter, K. B. 3423, 8584
Posa, B. T. 3045
Pospisil, F. 6246
Pospíšil, F. 9999
Pospíšilová, D. 3085
Pospíšilová, J. 6477, 8312
Possingham, J. V. 2252, 5433
Post, B. P. van der 6327
Postbiegl, E. 3931
Postiglione, L. 4033
Postolatiĭ, A. A. 1196, 9402
Potaczek, H. 3182, 6398, 10109
Potapenko, Y. I. 3093
Potapenko, Ya. I. 668, 3093
Potec, I. 3914, 5355
Pothiraj, P. 5912
Potočanac, J. 1791
Potrykus, I. 4113, 4758, 9340
Potter, H. S. 2860
Potter, J. M. S. 587, 5349, 6250, 6261
Poukhalski, V. A. 4210
Povilaitis, B. 524, 5272, 6119
Powell, J. B. 8765
Powell, R. 1747
Powelson, R. L. 8630
Powers, H. R., Jr. 10062
Poznańska, B. 2314
Pozolotin, A. A. 886, 888
Pozsár, B. 1006, 2981
Prade, J. C. La 4527
Pradervand, J.-C. 9386
Pradhakara Rao, M. V. 8559
Prado, F. A. del 2743
Prado M., R. 2882
Prakasam, P. 1312
Prakash Misra 6009
Prakash, S. 9000
Pramer, D. 5622
Praquin, J.-Y. 1441, 5804
Prasad, I. 5622
Prasad, M. V. R. 3448, 5729
Prasad, N. 4509

Prasad, N. N. 9264
Prasad, R. B. 6678
Prasarn Yingchol 7572
Pratap Singh 4533
Prato, J. D. 131, 9411
Pratt, B. H. 4181
Pratt, C. 599, 600
Pratt, H. M. 7351
Pravin Punsri 7573
Prem Nath 6378
Prem Singh 2248
Premsekar, S. 5568
Prentice, N. 5867
Prescott, J. M. 1753, 6771
Presolska, P. 4975
Pressey, R. 1575
Pressman, E. 763
Pressolska, P. 4975
Pretorius, J. P. 3562
Priadcencu, A. 5718, 6704, 7711, 8557, 8558
Price, E. G. 8771
Price, W. C. 638
Prien, H.-G. 6644
Priezzheva, L. G. 1827
Priilin, O. 267
Priĭlingi, O. Ya. 7721
Priĭlinn, O. 267, 3444, 9508
Prikhozhenko, Ė. Ya. 9455
Prileszky, G. 4584
Prileszky, Gy. 4584
Prillinger, F., Jr. 7326, 8220
Primak, N. N. 2103, 4491
Prince, V. E. 8179
Principe, J. A. 7410
Pritchard, A. J. 1610, 6448, 6957, 7518, 10138
Pritchard, P. J. 9266
Pritchett, J. A. 1810
Pritula, G. I. 4978
Pritula, G. J. 4978
Privalov, G. F. 2279
Probatova, N. 6945
Probatova, N. S. 6945, 7908
Probst, A. H. 1604, 7479
Proceedings of the Royal Horticultural Society 2293, 2294, 6335
Procházka, F. 1646
Procheron, A. 393
Prochownik, M. 8072
Prodan, G. 4032, 8190
Proefstation voor de Groenteteelt in de Vollegrond 7369
Prokhozhaĭ, I. D. 1125
Prokof'eva, I. V. 9742
Prokof'eva, Z. D. 4774, 4864
Proshko, Ya. I. 2008
Proshunina, M. F. 9759
Prosira, B. F. 5857
Proskurnin, N. V. 5006, 7848
Protasevich, R. T. 3789
Protsenko, D. F. 1794, 7758, 8609, 8612
Protsenko, D. P. 4892, 7754
Proudfoot, K. G. 8896
Provvidenti, R. 2391, 7473
Prugar, J. 1014, 9482
Prunescu, P. 4074
Prunier, J. -P. 628
Prus-Głowacki, W. 407
Prusakova, L. D. 4349, 8602
Pruss, A. G. 3876, 4570, 7256
Pryadko, N. I. 9873
Pryor, L. D. 5457
Przybyła, A. 9064
Przybylska, J. 9349
Psareva, V. V. 10123
Pshonova, S. I. 3887
Publication, Canada Department of Agriculture 5168
Publication, Ontario Department of Agriculture and Food 715, 921
Puchalski, J. 9394
Pugach, N. G. 9431
Pugacheva, T. I. 4274
Pugsley, A. T. 1784
Pujmanová, A. 8041
Pukhal'skiĭ, A. V. 9404
Pukhal'skiĭ, V. A. 4210
Pukhtinskiĭ, J. E. 2265
Pulver, R. J. 843
Pundarikakshudu, R. 7084
Pundir, N. S. 457
Puri, Y. P. 131
Purohit, A. N. 2016, 2837, 3460
Purohit, D. C. 2732, 4381
Purohit, J. P. 6773
Purohit, L. K. 2016
Purohit, M. L. 834
Purseglove, J. W. 10177
Purss, G. S. 3226
Purushothaman, K. C. 1428
Purusothaman, G. 5912
Purvinas, È. M. 3941
Puschmann, R. 3189
Pushkareva, M. M. 9822
Pushkina, G. A. 9408
Pushman, F. M. 7667
Pustovoĭt, G. V. 6152, 7170, 7171
Pustovoĭt, V. 8095
Pustovoĭt, V. S. 1367, 6152
Pustowoit, W. 8095
Putintsev, A. F. 10158, 10165
Putiyevsky, E. 2811
Puttarudrappa, A. 4369, 5031, 9663
Putyrskiĭ, N. V. 6015
Puzyreva, V. A. 8574
P'yanykh, V. P. 3364
Pyardi, Yu. 547, 1776
Pyeritz, R. E. 6512
Pyl'nev, V. M. 3442, 5734, 6794
Pyl'neva, P. N. 1086, 4320
Pynzar', S. L. 6457
Pyzhenkov, V. I. 10097
Pyzhov, V. Kh. 1473
Pzscheile, F. P. 7743
Płocharski, W. 10007
Qadir Bux 8029
Qalibokola, J. 8051
Quaglino, A. 9148
Quagliotti, L. 3975, 5335, 6173, 8118
Quagliotti, L. A. 7562
Quah, S. C. 3664
Quality Publication, Malting Barley Improvement Association 1112, 9633
Qualset, C. O. 131, 1903, 4342, 6784, 7743, 8598, 9411, 9413, 9530
Quamme, H. A. 3059
Quebedeaux, B. 3169
Queddeng, A. 2163
Queensland Department of Primary Industries 3314, 6586
Queensland Wheat Research Institute 6685
Querido, I. B. 7044
Quetier, F. 8378
Quiceno H., G. 2961
Quick, J. S. 2518, 3417, 8576, 9410
Quimby, M. W. 2081, 2082
Quinby, J. R. 1914, 3643, 9655
Quinlivan, B. J. 384, 2819
Quinn, J. A. 378, 1974
Quinn, L. R. 9712
Quinones, F. A. 2784
Quinones, M. A. 2543
Quintanilha, A. 1274
Quiroga, V. 2966
Quisumbing, A. R. 5512
Quittenbaum, G. 7933
Ra, J. S. 5116
Raatikainen, M. 1958
Rabb, J. L. 2791, 4733
Rabéchault, H. 4518
Rabinovich, S. V. 7695, 9400
Rabinovich, V. M. 9683
Rabshtyna, V. 968
Rachie, K. O. 2397
Rachinska, C. 1031, 7744
Rachinska, Ts. 1031, 7744
Rachinski, T. 3416, 7744
Rácik, J. 6975
Radchenko, N. M. 9017
Radcliffe, E. B. 2868
Radian, A. 6839
Radionenko, A. Ya. 1396
Radkov, N. 7928
Radman, L. 4067, 9126
Radman, Lj. 4067
Radnev, R. 4340
Rădoi, A. 4459
Radu, I. F. 6220, 7266
Răducanu, E. 3863, 4562
Rădulescu, E. 6774, 7760
Radulov, L. 10032
Radwan, M. A. 1532
Radwan, M. S. 5979, 8862
Radzhabli, E. P. 4169
Radzhi, A. D. 1211
Radzimowski, T. 7955
Raeber, J. G. 517
Raeuber, A. 7035
Ragab, M. M. 5692, 5693
Raghaviah, P. 3666, 5915
Raghunatha, G. 5032, 9582
Raghunatham, G. 3834
Raghwaiya 5263
Ragozzino, A 3849
Raheja, S. K. 7670, 9676
Rahim, A. 462
Rahman, M. M. 3659, 6746
Rahman, M. S. 5173
Rahman, N. H. A. 1828
Rahović, D. 7274
Rai, R. K. 151
Raicu, P. 4772, 7810, 8400, 9319, 9390
Raj, A. S. 6281
Raj, D. 1161
Rajagopal, V. 7190
Rajagopalan, K. 1934, 9669
Rajakumari, S. 7749
Rajan, S. S. 3343, 6648
Rajappa, M. G. 5886
Rajaram, S. 122, 179, 181, 2597, 3517, 8572
Rajasekaran, S. 7088, 9232
Rajasekaran, V. P. A. 3225
Rajashekara, B. G. 5023, 5032, 5886, 9582
Rajendran, P. G. 5914, 6108
Rajhathy, T. 192, 193, 2616, 2693, 2705, 4916, 4917, 8752
Rajki, E. 4197, 4237, 4875, 6747, 7736
Rajput, M. S. 10025
Rake, A. V. 2380
Rakha, E. A. 9559
Rakhimbaev, R. R. 6043
Rakhimov, A. R. 8921
Rakhimov, Kh. R. 8007
Rakhmankulov, S.-A. 459, 1288, 7068
Rakhmankulov, S. A. 8007
Rakhmankulov, S.-A. 8007
Rákoczi, L. 7409
Rakow, G. 3832, 8089
Ralski, E. 3513, 4357, 4905
Ram, C. 2968
Ram Prakash 6877, 10175
Ram Singh 9233
Rama Varma, K. T. 5271
Ramachandran, K. 2177
Ramachandran, M. 6151
Ramadasan, A 1431
Ramage, R. T. 2694
Ramah, A. M. 5979
Ramakrishnan, P. S. 1872
Ramamoorthi, T. G. 1968
Ramamoorthy, A. 5813
Ramamurthy, A. 3575
Raman, C. V. 1285
Raman, V. S. 283, 1171, 1378, 5568, 7184
Ramanatha Rao, V. 664
Ramanathan, T. 6151
Ramanauskas, V. I. 3948
Ramanna, M. S. 783
Ramanujam, S. 2349, 4085, 7521
Ramanujam, T. 4456, 5221
Ramaswamy, K. R. 283, 1171
Ramavarma, K. T. 2926
Ramazanov, E. R. 8573, 9421
Ramesh Venkataramana Bhat 1876
Rameshwar Prasad Sharma 16
Ramey, H. H., Jr. 1263
Ramiah, K. 6913
Ramina, A. 9057
Ramini, A. 7244
Ramírez, D. A. 3044, 3045, 5916
Ramírez, O. D. 7307
Ramma Rao, V. 6107
Ramos, F. M. 2086
Ramos, G. 5510
Ramos Núñez, G. 561
Ramos S., G. 3156
Ramshaw, J. A. M. 45, 4115
Ramson, A. 9893
Rana, B. S. 477
Rana Mohd. Sarwar Khan 5892
Rana, N. D. 1049
Ranchyalis, V. P. 3206, 3283
Randhawa, A. S. 2570
Randhawa, G. S. 4572, 4811, 5659, 6107
Randhawa, K. S. 5505
Ranga Reddy, P. 337, 7890
Ranganathaiah, K. G. 306
Ranganathan, K. 9823
Rangasamy, S. R. Sree 1378
Rangaswami, G. 7676
Rangaswamy, N. S. 4777, 6120
Ranković, M. 9114
Ranney, C. D. 6033, 9815
Rao, B. G. S. 7308
Rao, B. V. R. 5623
Rao, H. K. H. 7084
Rao, I. M. 7190
Rao, M. K. 6668
Rao, M. V. 5696
Rao, M. V. B. 7489
Rao, N. G. P. 5030
Rao, P. S. 2274, 4732, 5059, 6120
Rao, S. N. 1425
Rao, S. R. V. 2437, 9333
Rao, S. S. P. 7486
Rao, S. V. 3373
Rao, Y. P. 337, 1943, 7890
Raper, C. A. 858, 2404
Raper, J. R. 858, 2404
Rapoport, I. A. 4859, 5668, 7638
Rapp, K. 2785
Rasch, D. 9345
Rashidov, T. R. 1070, 9567, 9589
Rašić, P. 8146
Ras'kova, N. V. 3349, 9563, 9565
Rasmusen, D. M. 9881
Rasmuson, B. 4637
Rasmussen, H. P. 707
Rasmusson, D. C. 3616, 4343
Raspail, M. 10051
Rassadina, E. G. 4263
Rassadina, O. G. 6169
Rastogi, V. K. 4828
Rat, B. 6855
Ratanopas, S. 5777
Rath, G. C. 1166, 7892, 7893
Rathjen, A. J. 2484
Rathnaswamy, R. 3225, 3251
Ratho, S. N. 327, 1153
Ratnambal, M. J. 491
Ratner, V. A. 3263
Rattan Singh 5322
Ratuvuki, L. V. 5263
Raut, V. M. 6, 7531
Rautou, S. 1065
Rava, C. A. 1369
Raveendranath, T. G. 6243
Raven, P. 68
Ravindran, P. N. 880
Ravisé, A. 2499
Rawat, R. R. 834
Rawlings, J. O. 2988
Rawson, H. M. 2567, 2568
Rawther, T. S. S. 5398
Ray, L. L. 9820
Raychaudhuri, S. P. 944, 10125

Raymer, W. B. 3196
Raymond, W. F. 1700
Razmologov, V. P. 10065
Razoriteleva, E. K. 1363
Razumov, V. T. 2707
Razuvaeva, N. F. 7827
Razzaque, C. A. 2459
Read, P. E. 4727
Read, R. A. 5472, 5479
Rebenko, V. P. 1125, 9639
Rebois, R. V. 5537
Reckin, J. 5294
Reddi, K. 6076
Reddi, M. V. 288
Reddi, N. S. 8770
Reddy, A. P. K. 5060, 8794
Reddy, A. R. 5786
Reddy, C. R. 1911
Reddy, G. M. 323, 1840, 1931, 3660
Reddy, G. P. 3834
Reddy, M. K. 8798
Reddy, M. V. 5623
Reddy, P. S. 3834, 5957
Reddy, T. G. 1157, 5748
Reddy, T. P. 323, 1931, 3660
Redlinger, L. M. 252
Ree, J. H. 6922, 7879
Reed, G. L. 255
Reeder, B. D. 824
Rees, H. 199, 8648
Refai, F. Y. 1917, 2376
Regazzi, D. 1412
Reggi, C. de 4754
Rehman Chowdhry, A. 123
Reichbuch, S. 8686
Reichel, M. 2192
Reid, D. A. 8750
Reimann-Philipp, R. 4744
Reimers, G. 6642
Reimers, H. 5802
Reinbergs, E. 2714
Reiner, L. 5859
Reinert, R. A. 791, 1622, 7378
Reis, P. R. 5395
Reisch, W. 1339
Reiter, J. 7774
Reitz, L. P. 3424
Rejman, A. 1408, 9946
Rejzlová, V. 2763
Rembacz, J. 4581
Remeslo, V. 7755
Remeslo, V. N. 911, 7677, 8603
Remeslo, W. 7755
Remlein, H. 7021
Remneva, Z. I. 10123
Remröd, J. 1486
Renard, J.-L. 8108
Renaud, R. 10053
Renfro, B. L. 246, 1100, 1145, 4286
Renney, C. W. 3690
Renosto, F. 236
Rensburg, H. J. van 7488
Renvoize, S. A. 3694
Rep'ev, S. I. 2742
Research and Farming 2794
Research Institutes of Crop Production, Czechoslovakia 8419
Research Report, University of Georgia College of Agriculture Experiment Stations 63
Resh, F. M. 2563
Resmeriță, I. 4400
Restel', G. Ĭ. 8949
Retig, N. 1557
Rexer, E. 7526, 7527
Reyes E., H. 5291, 7156
Reyes, L. 2599
Reyes, L. C. de 5291
Reyes-Soto, I. 7288
Reynolds, B. D. 6258
Reynolds, G. 2928
Reynolds, J. D. 714
Reynolds, P. E. 1508
Řezáč, A. 5970
Rezk, M. A. 9679
Reznikoff, W. S. 3275
Reznikova, L. G. 145
Reznikova, S. A. 2400, 9018
Rhoades, M. M. 1853
Rhoads, F. M. 8718
Rhodes, A. M. 1327
Rhodes, A. P. 7666
Rhodes, I. 1181, 1963, 4408
Rhodes, W. H. 625
Rhykerd, C. L. 2652
Ribagin, T. 9550
Ribeiro, A. S. 5121
Ribeiro, L. J. 10075
Ribeiro, M. A. M. do V. 1182
Ribeiro, M. A. S. 8594
Ribeiro, R. de L. D. 4719, 9256
Ribéreau-Gayon, P. 7327
Riccelli Mattei, M. 1659
Rice, E. R. 8034, 9841
Rice, J. C. 8971
Rich, P. A. 8544
Richards, A. J. 6428
Richardson, D. L. 45
Richardson, F. E. 9843
Richardson, J. B., III 8298
Richardson, M. 45, 4115
Richardson, M. J. 277
Rick, C. M. 2341
Ricketson, C. L. 4149
Riddle, B. 532
Riedel, R. M. 4328
Ries, S. K. 2571
Rife, C. F. 6289
Riggs, R. D. 1606, 2374
Riggs, T. J. 2685, 8755, 9617
Rigin, B. V. 3427, 6699
Rigina, S. J. 1129
Rikhter, A. A. 1473
Riley, R. 3377, 3422, 4228, 4861, 5740
Rilishkis, A. 3949, 5406
Říman, L. 1199, 5973, 6975, 7927, 7945, 7946
Rincker, C. M. 1183
Ríos-Castaño, D. 3041, 3077, 3896
Rios, G. P. 8346
Risius, M. L. 3719
Ristanović, M. 4067, 9084, 9111, 9126
Ristevski, B. 3011
Risueño, M. del C. 2449
Rițiu, C. 3886
Ritter, R. M. 258
Ritz, J. 8287, 8936
Rivard, I. 8152
Rivas, D. 6354
Rivkin, V. 658
Rizescu, S. 3794, 4021, 7114
Rizk, R. A. 7092
Rizk, S. S. 3213
Rizzoni, M. 8404
Rjabota, A. N. 2983
Röbbelen, G. 1357
Robbins, M. L. 3185
Robbs, C. F. 9256
Roberts, D. A. 8373
Roberts, J. J. 81, 4907
Roberts, S. 1597
Robertson, A. 4
Robertson, W. K. 2630
Robinson, F. E. 8924
Robinson, G. G. 1205
Robinson, J. C. 9215
Robinson, J. F. 675
Robinson, R. 3999
Robinson, R. W. 7419
Robinson, W. B. 7314, 8210, 8222, 8330
Robison, B. R. 2902
Roby, F. 5366
Rocha, H. M 5292
Rochelle, L. A. 1347, 7415
Rod, J. 272, 8501
Rodenburg, C. M. 3977, 8281
Rodionova, V. V. 884
Rodrigues, A. 3089
Rodrigues, A. F. 8030, 9916
Rodríguez, A. E. 2882
Rodríguez Amieva, P. J. 942, 3391
Rodríguez-Carrasquel, S. 1919
Rodriguez, J. G. 794, 5414
Rodríguez Marquina, E. L. 2154, 2155, 2156, 5570, 5580
Rodríguez S., M. 9383
Rodríguez-Sosa, E. J. 8967
Roelants, W. 2905
Roelfs, A. P. 180, 6775
Roer, L. 416
Roey, G. Van 9273
Rogash, A. R. 8929
Rogash, I. Yu. 6053
Rogash, Yu. I. 6053, 8929
Rogers, C. M. 478
Rogers, H. H. 8821
Rogers, K. M. 7193, 9282, 9921
Rogers, M. A. 7202
Roggen, H. 9219
Roggen, H. P. J. R. 735, 3158
Rognon, F. 1429, 4596, 4597
Rogovskiĭ, Yu. A. 3407
Rogozhinskiĭ, B. I. 7831
Rohde, C. R. 971, 973
Rohde, R. A. 1741
Rohlf, F. J. 1653
Rohrbach, H. 597
Rohringer, K. 226
Rojas, E. 1110, 7962
Rojik, I. 6522
Rokhtla, Kh. A. 6640
Roland, L. 7835
Rolfe, B. G. 3274
Roller, K. J. 6315
Rollier, M. 1362, 2129, 7160, 8347
Rollin, S. F. 8483
Rollwitz, W. 7859
Rom, R. C. 1419, 8167
Roman, A. 5691, 5703
Román H., C. 3041
Roman, L. 4940
Romanenko, L. G. 9924, 9925
Romanescu, I. 3073
Romanova, L. V. 9308
Romanova, N. P. 3538
Romanova, V. N. 4255
Romanshchak, S. P. 1402
Romaşcu, E. 2605, 6357
Romashko, I. S. 10039
Romney, D. H. 637, 1432
Roncador, I. 2251
Rønningen, K. 2411
Rönningen, K. 7532
Roo, R. de 6954
Room Singh 2248
Rooney, L. W. 5900, 5904
Roquib, A. 2598
Ros, B. 7977, 9777
Rosas, J. E. 2730
Rosbaco, A. de M. de 1290
Rosbaco, U. F. 5835
Rose, A. D. dalle 7577
Roselli, G. 2144, 2145, 6193
Rosemaund Experimental Husbandry Farm 6614
Rosen, R. 9328
Rosenow, D. T. 301, 8782
Rosenstock, G. 5200
Rosero, M. J. 4377
Rosero M., M. J. 5041
Rosewarne Experimental Horticulture Station 6654, 7626
Roskams, M. A. 148
Rosnev, B. 5468
Ross, D. R. 3257
Ross, E. W. 4642
Ross, H. 2035
Ross, H. F. 8066, 8067
Ross, J. G. 2781, 8830
Ross, M. D. 1681
Ross, W. M. 297, 2724, 3641, 3648, 3649, 9651
Rossetto, C. J. 5395
Rossi, H. H. 17
Rossi, L. 3402, 3446, 3451, 4210, 4227, 5728
Rossister, R. C. 2820
Rossman, E. C. 9557
Rossnev, B. 5468
Rost, T. L. 554
Röstel, H. J. 8949, 9848
Rostron, H. 1303
Roșu, F. 5368
Roșu, L. 9785
Roszko, A. 3630
Rotar, P. P. 410, 8875, 9665
Rotarenko, A. P. 6842
Rotem, J. 611, 7258
Rothacker, D. 3746
Rothamsted Experimental Station 5665, 8900
Rotili, P. 1191
Rotkelowa, J. 3381
Rotsettis, J. 378
Rottink, B. A. 1525
Rouanet, G. 7198
Roukka, K. 8536
Rourk, J. P. 7154
Rousek, J. 4332
Rousi, A. 6272
Roussel, N. 2905, 7117
Rousset, M. 4944
Roussineau, J. 229, 826
Routhier, B. 9612, 10091, 10105
Routley, D. G. 9698
Roux, J. B. 8909, 8913, 8914
Rovella, C. A. 7921, 7931
Roversi, A. 9984
Rowe, J. W. 687
Rowe, P. R. 2029, 2846, 2861, 3721, 5195
Rowell, J. B. 180
Rowland, G. 2535
Roy, D. N. 687
Roy, H. L. Le 2418
Roy, J. K. 5066
Roy, K. 6921
Roy, R. M. 3137
Roy, R. P. 2327, 4171, 8878, 10094
Rozenberg, P. S. 9384
Rozenberga, P. 9384
Rozhdestvenskiĭ, V. D. 4853, 7710
Rozhkova, V. T. 3835
Rozmus, M. 3455, 3545
Rtveliashvili, I. G. 6631
Rubaihayo, P. R. 9295
Ruban, E. V. 4491
Ruban, N. G. 7310
Rubanyuk, E. A. 8611
Rubber Research Institute of Ceylon 7209
Rubber Research Institute of Malaya 9026
Rubchenya, L. Yu. 238
Rubenthaler, G. L. 8595
Ruberté, R. 8966
Rubin, B. A. 3349, 4173, 7640
Rubis, D. D. 4517
Rubtsov, M. I. 9244
Ruckenbauer, P. 3411, 3466
Ruckman, J. E. 7743, 8598
Rud', V. D. 2006, 4471, 5254
Rudenko, I. S. 9069
Rudenko, L. S. 1258
Rudenko, M. I. 3474
Rudić, M. 8144
Rudich, J. 759, 763, 1553, 1557, 2324
Rudin, D. 4637
Rudloff, E. von 701
Rudnicki, R. 7482
Rudolph, A. 3623
Rudolph, K. 4040, 4177, 6442
Rudowski, J. 4429
Ruebenbauer, K. 3269
Ruebenbauer, T. 271, 959, 960, 3269, 3546, 4844, 5003, 5799, 7677, 9640
Ruehle, J. L. 1523
Rüger, H. 9163
Ruikar, R. K. 6773
Ruikar, S. K. 8559
Rukhmanski, G. Ya. 7459
Rukhmansky, G. Ya. 7459
Rukina, T. A. 9682
Rukmanski, G. 2361
Rukmansky, G. 2361
Rukmansky, G. Ya. 6435
Rumball, W. 369, 1846, 3679
Rumbaugh, M. D. 5156
Rumpf, G. 5204
Rumyantseva, V. 3978

Rundaeva, V. M. 10102
Runemark, H. 2782
Runkona, L. V. 7899
Rupert, J. A. 9411, 9530
Ruppel, E. G. 2095, 3795, 4484, 7125, 8964
Ruppel, H. G. 8638
Rural Research in CSIRO 3636, 3708, 5020
Rusakova, M. B. 6941
Rusanovschi, G. 8011
Rusanovschi, V. 5832, 5837
Rusch, H. P. 8407
Ruschel, R. 1833, 1834
Rush, M. C. 1944
Rushdy, R. 742, 10091, 10105
Ruskova, K. 2631, 4964, 4991, 5845, 8673
Rusmini, B. 3979
Ruśniak, L. 3610, 3627, 4356
Russell, C. C. 2871
Russell, G. E. 2094, 5993
Russell, W. A. 1847, 3579, 7799, 7800, 8667
Russu, L. P. 7641
Rustagi, P. N. 6737
Ruszkowska, B. 6762
Ruszkowski, M. 3389, 5701, 5702, 6762, 6795
Rutger, J. N. 1903, 5038, 5085
Rutskiĭ, I. A. 9573
Ruwali, K. N. 2567, 2568
Růžička, F. 1119
Ryabinina, M. I. 7785
Ryabov, I. N. 8181, 9020, 9130
Ryabova, A. N. 9120
Ryabova, N. I. 3076
Ryan, G. 6837
Rybakov, A. A. 4573
Rybakova, M. I. 950, 3387
Rybal'chenko, N. I. 9958
Rychkova, T. A. 9462
Rychlová, M. 2355
Ryder, E. J. 4678
Ryerson, D. E. 2780
Rykaczewska, K. 6012
Rykhsikhodzhaev, T. 1275, 7066
Rymsza, Z. 8329
Rysbaeva, A. S. 3765
Ryser, G. K. 4481
Rystakov, V. 1273
Rysz, M. 4261, 4905
Ryumina, N. A. 8727
Ryzhak, I. G. 9103
Ryzheeva, O. I. 7098
Ryzhkova, T. S. 9070
Rzaev, M. M. 6238, 7063
Rzhanova, E. I. 845, 3349
Saakyan, G. A. 8506
Saakyan, T. A. 8116
Saari, E. E. 174
Saavedra, F. de A. 3425
Sabanov, D. 2914
Sabasny, P. 7621
Sabaznyĭ, P. A. 7621
Sabet, K. A. 3604, 6049, 6050, 6851
Sabeva, Z. 6706
Sabharwal, P. S. 3280
Sačanski, S. 3248
Saccardo, F. 1775, 2105, 3813
Saccas, A. M. 5286
Sacco, T. 4750, 6490
Sachan, J. K. S. 233, 9571
Sachanski, S. 2825, 3248, 4741
Sackston, W. E. 558, 2986, 5317, 5318, 6162
Sacristán, A. M. 2449
Sacypierova, I. F. 7206
Sadasivaiah, R. S. 526
Sadek, M. M. 5770
Sadiq Ali 6894
Sadovnichiĭ, B. E. 1566
Sadykhov, A. M. 4847, 9444
Sadykov, A. S. 3764
Sadykov, S. S. 1701, 4452, 5760, 6043, 8920, 9802, 9819
Sadykova, O. 3349
Saelens, W. 5500
Saenko, N. F. 7323
Saettler, A. W. 814, 7470
SAFA 8999
Safeeulla, K. M. 304
Safir, G. R. 3603
Safonov, M. D. 9363
Safonov, V. I. 4558
Safran, B. 3111
Sage, G. C. M. 6712, 6742
Sagen, J. E. 2884
Sager, R. 14
Saha, A. 3286
Sahai, J. M. 8344
Sahai, R. N. 8344
Sahakian, T. A. 8116
Sahakyan, T. A. 8116
Sahay, B. N. 6071
Sahu, R. K. 5922
Saidak, R. L. 5479
Saidak, W. J. 4586
Saidkarimov, Z. 8138
Saiga, S. 4405, 7910
Saijo, R. 4498
Saikia, G. R. 6063
Saimbhi, M. S. 6174, 7411
Saini, R. G. 8098
Saini, S. S. 2747
St.-Pierre, C. A. 2677
Saint, S. 1831, 5681, 5959
Saito, K. 6121, 6384, 7911
Saito, S. 4006, 4376
Sajner, J. 8386
Sajó, Z. 5661
Sakaguchi, S. 2018
Sakai, A. 698, 700
Sakai, K. 3345, 3346, 5483
Sakai, K.-I. 3345, 3346, 5483
Sakamoto, S. 3526
Sakharam Rao, J. 7889
Sakhatmuradov, K. 6639
Sako, N. 280
Saks, K. A. 10058
Saksena, H. K. 171, 278
Sakurai, K. 5597, 9298
Sakurai, Y. 3673, 8793
Salama, H. S. 8187
Salama, M. I. 1849
Salama, S. B. 3213
Salama, S. I. 1849
Salamini, F. 8394, 9275
Saleeb, W. 552
Saleh, M. R. 8187
Saleĭ, A. K. 6056
Salem, A. A. 5227
Salem, A. M. 6847
Salganik, R. I. 3278
Salleo, S. 3035
Sal'nikova, T. V. 4225, 5732
Salo, M.-L. 1404, 2234
Salonen, A. 1173
Salontai, A. 7023
Salontai, T. 5977
Salova, T. M. 2076
Salunke, M. R. 1012, 1159
Salvet, J. 7018
Salvioli, R. A. 1987, 2641
Salvioli, R. A. L. 2333, 2642
Salvioli, R. L. A. 7921, 7931
Salykova, O. M. 845
Samadi, B. Y. 9011
Samaranayake, P. 583
Samarawira, I. 5601
Samarina, L. N. 1633
Samayoa, A. E. 9799
Sambandam, C. N. 9261
Samborski, D. J. 187, 2543, 9512, 9528
Samburova, O. N. 2563
Samish, R. M. 3925
Samish, Y. B. 7188
Samolevs'kiĭ, P. Ya. 9475
Samorod, V. D. 9784
Samorodov, V. N. 8934
Samorodova-Bianki, G. B. 3862, 5412, 9075, 10004
Sampath, S. 1153
Sampson, D. R. 3529
Samra, A. S. 3604, 6851
Sams, D. W. 4675
Samson, J. A. 5541
Samson, R. 3878
Samsonov, N. 3565
Samsonova, I. A. 4003
Samuel, C. J. A. 4646
Samusenka, S. S. 5123, 8800
Samvelian, G. E. 5375
Samvelyan, G. E. 5375
Sanbuichi, T. 6454
Sánchez C., H. 1844, 1870, 1874
Sanchez, C. R. S. 5759
Sánchez C., Y. H. 1843
Sánchez de Rivera, A. M. 1997, 2823
Sánchez-Monge, E. 3261, 5611
Sánchez Neira, P. 5094, 8783
Sánchez P., A. 3039
Sánchez, P. A. 5089, 5910, 5927
Sánchez P., S. 8358
Sand, S. A. 18, 2107
Sander, C. 9625
Sanderson, F. R. 4895
Sanderson, K. W. 3585
Sandhu, H. S. 163
Sandhu, M. S. 762
Sandhu, R. S. 568, 2167, 9917
Sandhu, T. S. 4086
Sandina, I. B. 7206
Sandu-Aldea, C. 9319
Sandu-Ville, G. 3075, 10028
Sanford, L. L. 447, 5205
Sangha, A. S. 566
Sanghi, A. K. 6779
Šangin-Berezovski, G. 267
Sanjeevaiah, B. 4374
Sanjeevi, P. S. 2896
Sanjeeviah, B. S. 7191
Sankara Reddi, G. H. 965
Sankaranarayanan, P. 490, 3775
Sankaranarayanan, T. G. 1285
Sankhla, N. 5308
Sankoff, D. 6515
Sankov, I. 2542
Sansavini, S. 4563
Sansome, E. 3745
Santamour, F. S., Jr. 678, 2272
Santaram, G. 7896
Santhanam, V. 7088, 7989
Santiago, J. C. 2602
Santis, A. De 8405
Santos, A. C. 2958
Santos, F. H. 2881
Santos, M. F. 2787
Santoso, M. 3519
Sanyal, S. N. 1777
Sappenfield, W. P. 6035
Sapra, V. T. 7716
Saracco, C. 5427
Saran, S. 7877
Saraswathi, V. 1145
Sarazin 1013
Sarca, V. 5811
Sareen, P. K. 5303, 7165
Sareen, T. S. 6310, 6311
Sarfatti, G. 4708
Sarfraz A. Siddiqui 462
Sargsyan, N. S. 1790, 5714, 7701
Sarian, Z. B. 314
Sariyar, G. 9897
Sárkány-Kiss, I. 5293
Sárkány, S. 5293
Sarkar, K. R. 233, 9571
Sarkisian, N. S. 5714
Sarkissian, I. V. 2417
Sarkisyan, N. S. 1790, 5714, 7701
Sarli, A. E. 1239
Sarma, C. B. S. R. 579
Sarpe, N. 4051, 6465
Sarria, D. 4292, 8675
Sarwar, M. 5265
Sarychev, U. F. 6125
Sarychev, Yu. F. 4491, 6125, 7137
Sarykulov, O. 6210
Sas-Piotrowska, B. 5186
Sasaki, M. 139, 3541
Šašek, A. 1014, 2580, 8887, 9482
Sastrosumarjo, S. 7730
Sastry, K. S. 9919
Sastry, K. S. K. 5023
Satarov, N. M. 110
Satarova, S. N. 9976
Satbaldina, S. T. 1614
Sathiabalan Samuel, G. 553, 10174
Satnam Singh 9505
Sato, K. 3655
Sato, N. 6020
Sato, T. 3900, 8318
Satsyperova, I. F. 7206
Satya Vir 9004
Satyanarayana, G. 664
Satyanarayana, Y. 1312
Satyavathi, D. 6959
Satyendra Kumar 476
Sauer, W. 377
Săulescu, N. 5745
Săulescu, N. N. 6711, 7680
Saura, F. 5313
Saure, M. 3855
Saurer, W. 3372, 3478, 6664
Savage, E. F. 8179
Savage, J. R. K. 6524
Savatti, M. 5166, 5975, 5976, 5977, 6980
Savchenko, M. P. 1009
Savchenko, N. I. 967
Savchenko, V. K. 3790
Savel'eva, M. L. 10161
Savenkova, E. P. 8872
Savić, S. 1122, 1123
Savile, D. B. O. 941
Savin, G. 8230
Savin, G. A. 5444
Savinskaya, N. V. 7016
Savo, R. M. 6365
Săvulescu, A. 4082
Sawa, M. 3655, 5108, 10135
Sawamura, K. 8149
Sawhney, R. N. 4260
Sawhney, V. K. 9248
Sawicka, E. 4361, 5185, 5207
Saxena, D. B. 6488
Saxena, D. K. 4723
Saxena, S. K. 8273
Saxena, S. S. 8344
Sayanova, V. V. 4726
Sayatinov, I. A. 9175
Sayers, C. D. 896
Sayid, S. I. A. 6164
Saylor, L. C. 4638, 7367, 10061
S"beva, Z. 6706
Scalfati, M. C. 1793
Scandalios, J. G. 837, 1845
Scannerini, S. 4750, 6490
Scantamburlo, J. L. 7869
Scaramuzzi, G. 4015
Scarascia, G. T. 4857
Scarascia Mugnozza, G. T. 1782, 1893, 2382, 4806
Scarascia Venezian, M. E. 9247
Schaap, T. 189, 6509
Schaefer, H. 661, 662
Schaeffer, J. R. 8829
Schäfer, H. 5556
Schaffer, H. E. 865, 4093
Schaffer, H. G. 3142, 3175
Schaffert, R. E. 9652
Schaik, P. H. van 7194
Schaller, C. W. 1903
Schaller, K. 2858
Schank, S. C. 374, 1973, 2778, 2779, 3688, 3689, 8827, 8833, 9714
Scharen, A. L. 1803, 4896
Scharf, H. 7737
Scharpé, A. 4743
Scheffer, R. P. 302, 9609
Scheid, W. 6523, 7560, 8398
Schelander, B. 8257
Schelling, P. 261
Scheltgen, E. 3693
Schery, R. W. 1172
Scheuch, F. 4277
Scheuermann, W. 6525
Scheys, G. 4913
Schillinger, J. A. 1803, 4896
Schiltz, P. 6122, 6127, 6128
Schlehuber, A. M. 1756, 2522, 2574
Schleip, H. 5421
Schlüter, K. 7860, 8760

Schmalz, H. 3370, 4839, 7617, 7738, 9465
Schmehl, W. R. 5258
Schmid, H. 7241
Schmidt, E. 4898, 6774
Schmidt, H. 609, 610, 7271
Schmidt, J. A. 7149, 8978
Schmidt, J. W. 103, 107, 140, 152, 5070
Schmidt, L. 8041
Schmidt, P. 7523
Schmied, M. 2804
Schmiedeknecht, M. 186
Schmitthenner, A. F. 1598, 2381, 6468
Schneider, A. 7507
Schneider, C. L. 4487
Schneider, M. 4308, 8712
Schnell, G. D. 1653
Schnetzer, H. L. 7906
Schöber, B. 2010, 6018
Schober, K. 421, 915
Schoknecht, J. D. 7339
Scholz, F. 2488, 3623, 5000
Schön, W. J. 952
Schonhorst, M. H. 1985, 5967, 9723
School of Agriculture and Life Sciences, North Carolina State University 7427
Schooler, A. B. 2691, 4998
Schramml 7636
Schreiber, E. 9211
Schreiner, E. J. 1488, 4635
Schreven, D. A. van 6983
Schröder, J. 4769
Schroeder, W. T. 2391, 7473
Schröter, W. 3791
Schuck, H. J. 3138
Schultz, J. E. R. 9002
Schultz, R. P. 1521
Schultze-Motel, J. 3362, 3363, 3623, 5553, 5556
Schulz, H. 7917
Schulz, M. 5229
Schulz-Schaeffer, J. 132, 3692
Schumann, F. 8221
Schuphan, W. 51
Schuricht, R. 9953
Schuricht, W. 620
Schuster, G. 2954
Schuster, M. L. 2366, 2370, 4979, 5563, 6441, 6443, 7463, 9278
Schuster, W. 2626, 3385
Schwanitz, F. 7653
Schwartz, J. W. 6733
Schwartze, C. D. 10011
Schweiger, W. 7786
Schweisguth, B. 732
Schweizer, D. 2444
Schwemmle, B. 2410
Schwer, J. F. 1197, 1992
Scogin, R. 8870
Scora, R. W. 10000
Scossiroli, R. E. 4717
Scott, D. H. 641, 4609, 5341, 6259
Scott, G. E. 256
Scott, L. E. 2042
Scott, N. S. 6495
Scott, R. C. 1218
Scott, R. W. 273
Scott, W. R. 1996
Scottish Horticultural Research Institute 9042
Scottish Plant Breeding Station 6567
Scurrah, M. M. de 2866
Scurtu, D 7956
Scurtu, E. 4051
Searle, S. A. 8375
Sears, E. R. 2547, 7650, 7773
Šebesta, J. 1822, 5798, 8642
Sebök, C. 5166, 7481, 8319
Sebők, I.-né 2213, 7269
Sechler, D. T. 8623
Sechnyak, L. K. 8478, 8527
Sedcole, J. R. 4407
Šedivý, J. 1638, 5972, 6484
Sediyama, C. S. 3235
Sediyama, T. 1608, 3235
Sedlarska, B. 6276
Sedlovskiĭ, A. I. 1556
Sedmakova-Louchanska, E. 2822
Sedmakova Luchanska, E. 2822
Sedov, E. N. 7248, 9062, 9068, 9072
Sedov, K. N. 8131
Sedova, Z. A. 9062
Seed Scoop 2490, 2528, 2529, 2681, 2765, 2766, 2795, 3528, 3687, 4055, 4056, 5708, 5849, 5963, 6478, 7909, 7929
Seeligmann, P. 4526
Seethaiah, L. 6281
Seetharam, A. 475, 1289, 1935, 2888, 9649
Seetharaman, R. 320, 5054
Segărceanu, O. 4051
Segeta, V. 4252, 9498
Seguela, J. M. 5680
Sehgal, C. B. 1389
Sehgal, K. L. 2747, 4884, 5021
Sehgal, S. P. 4509
Seibel, W. 5802
Seidewitz, L. 3352, 4164
Seĭfullin, Ya. L. 4946
Seikel, M. K. 687
Seitzer, J. F. 3207
Sekawin, M. 1502
Sekerka, V. 2204
Sekhon, K. S. 568, 9013
Sekiguchi, Y. 8793
Sekizawa, K. 8793
Sękowski, B. 2202
Seleem, Q. M. 5225
Selektsiya i Semenovodstvo 875
Selenius, H. 5671
Selim, A. 2686, 6878, 8738
Selim, A. K. A. 1042, 4262, 9642
Selim, M. H. 6984
Sell, H. M. 745, 10101
Selonenke, L. P. 8886
Selukova , V. V. 885
Selvaraj, J. C. 77
Selvaraj, K. V. 3637
Selvaraj, S. 1968
Selyametov, R. A. 3592
Selyukova , V. V. 885
Semakin, V. P. 5352, 7242, 8131, 9067, 9072
Semenenko, N. M. 9878
Semenov, A. L. 3675, 8804
Semenov, O. G. 1001
Semenov, V. A. 2678, 9616
Semenova, D. I. 8663, 8705
Semenova, L. V. 6738, 9497
Semenova, N. Yu. 4918
Semenova, T. N. 10167
Semenova, V. M. 9018
Sément, G. 9826
Semenyuk, V. E. 9861
Semenyuk, V. F. 1000
Semikhov, V. F. 7900
Semina, S. N. 4588
Sen, C. 484
Sen, S. K. 864
Sena-Silva, M. do S. 7093
Senchenko, G. I. 2078, 2079, 8027
Sène, D. 1601
Senf, G. 9361
Senkovich, B. 6650
Senkowitsch, B. 6650
Sento, T. 4598
Sentschenko, G. T. 8027
Seppänen, E. 1245, 1252
Sequeira, L. 2029, 2861, 5501
Serafimov, S. S. 3935, 5451
Serafimova, R. 5451
Serban, D. 10041
Serdyuk, M. A. 8814
Serebrovskiĭ, A. S. 1660
Serebryany, A. M. 4225
Serebryanyĭ, A. M. 4225
Sergeev, A. V. 5853
Sergeeva, K. D. 8191, 9156
Sergheyev, A. V. 5853
Sergiyenko, V. M. 5990
Serini, G. 67
Šerman, D. 5606
Sermsak Awakul 5050
Serobyan, P. A. 3192
Seropyan, P. A. 3192
Serpa, A. 8874
Serpokrylova, A. V. 3584
Serve, B. T. de la 7940
Sesby, M. A. 5225
Seshadri, V. S. 2320, 9231
Seshadrinathan, A. R. 5221
Seshagiri Rao, T. 4374
Seshu, D. V. 5057, 5066
Sestrienka, A. 6475, 6479, 6480
Seth, A. K. 7177
Seth, J. N. 10132
Seth, M. L. 944, 6427
Sethi, G. S. 134, 1902, 4348, 6896
Sethi, S. C. 7165
Setty, K. G. H. 6129
Severin, E. 3914, 6296
Sevilla, P., R. 1844
Sevost'yanikhina, R. I. 10129
Sevov, A. 2631, 4991, 5845, 7795, 8673
Sewell, G. W. F. 7227
Seyffert, W. 3260, 8377
Sezin, I. M. 9363
Sh. Niaz Ahmad 4808, 5892, 6894, 9379, 9653
Sh. Niaz Ahmed 9653
Shabalina, V. 3728
Shabalta, S. M. 3644
Shabanov, D. 2914
Shabi, E. 611, 7258
Shadmanov, R. K. 8000
Shaeffer, J. 2431
Shafik, I. 5692, 5693
Shafir, G. M. 4574
Shafranskiĭ, V. 8475
Shafranskiĭ, V. P. 10068
Shafranskij, V. 8475
Shah, S. S. 8033, 8942
Shah, V. C. 9333
Shahab-ud-Din Fasihi 489
Shahadat Khan 239
Shahnoubaryan, S. T. 3192
Shain, S. S. 9718
Shaĭndurov, V. S. 9783
Shaĭtan, I. M. 4556, 7957
Shakhanov, E. 748
Shakhbazov, V. G. 4956
Shakhmedov, I. Sh. 126, 3486
Shakhnubaryan, S. T. 3192
Shakhov, N. F. 247
Shakin, A. 7417
Shalaby, E. M. 5225
Shambetov, S. 8044
Shambetov, S. Sh. 8045
Shambulingappa, K. G. 7282
Shamina, Z. B. 7137
Shamir, M. 9586
Shands, H. L. 8640
Shaner, G. 4907, 8630
Shaner, G. E. 81
Shangin-Berezovskiĭ, G. 267
Shankara Bhat, S. 304
Shankara Gowda, B. T. 1935, 7873, 7874, 9668
Shankare Gowda, B. T. 9668
Shankaregowda, B. T. 7873, 7874
Shanker, K. 3845
Shanmugam, N. 9823
Shanmugasundaram, S. 6388
Shanmugavelu, K. G. 639, 8050
Shannon, J. G. 9388
Shannon, S. 719, 3999, 4728
Shanta, P. 1431
Shantha Kumari, P. 4084
Shanturova, E. I. 9470
Shapiro, I. D. 4978, 7662, 9691
Sharapo, V. Z. 8841
Sharda, R. T. 2016, 2837
Sharda Srivastava 2437
Sharepo, T. I. 4071, 6471
Sharma, A. 2051
Sharma, A. K. 38
Sharma, B. 3619
Sharma, B. L. 499
Sharma, B. N. 5838
Sharma, B. R. 3157
Sharma, C. B. S. R 4660
Sharma, C. P. 802
Sharma, D. 813, 1592, 4193, 4309, 4748, 4945, 7515
Sharma, H. C. 4730
Sharma, H. K. 4748
Sharma, J. C. 2320, 9231
Sharma, J. K. 303
Sharma, K. C. 1036
Sharma, K. D. 1902
Sharma, K. K. 1160
Sharma, K. P. 430, 442, 5021, 6051
Sharma, L. C. 2889, 8015
Sharma, M. C. 9896
Sharma, O. P. 76
Sharma, P. N. 840
Sharma, R. C. 9643
Sharma, R. K. 2359
Sharma, R. L. 3921, 6279
Sharma, R. P. 16, 3447, 3542
Sharma, S. D. 1933, 5086
Sharma, S. K. 3632
Sharma, S. L. 5095
Sharma, S. V. 5054
Sharma, V. K. 752, 9453
Sharma, Y. K. 3845
Sharov, I. Ya. 3769
Sharova, L. A. 4076
Sharova, L. D. 9731
Sharova, N. I. 10047
Sharova, P. G. 4516
Sharp, E. L. 1040
Sharp, W. R. 4451
Sharpe, R. H. 2238, 6198, 6236
Sharples, G. C. 631, 10092
Sharples, R. O. 7228
Shastry, S. V. S. 5042, 5054, 5057, 5066, 5908
Shatkina, Sh. I. 8143
Shaver, T. N. 473, 9827
Shavrina, N. V. 5887
Shaw, M. E. A. 1305, 1309, 2893
Shaw, S.-M. 2736
Shawkat, A. L. 9160, 10008
Shcheglov, Yu. S. 5974
Shcheglova, N. S. 4190, 5710
Shchelko, L. G. 1129, 1905
Shcherbak, V. A. 1287
Shcherbakov, Ju. N. 61, 350
Shcherbakov, V. K. 940, 1726, 5390
Shcherbakov, Yu. N. 61, 350
Shcherbakova, A. M. 3789
Shcherbakova, N. M. 4019
Shcherbina, D. M. 9727
Shchukina, A. I. 9491
Shealy, H. E., Jr. 9150
Shear, C. B. 602, 606, 4565
Shebeski, L. 3441
Shebeski, L. H. 2527, 2700, 6792
Shebitchenko, V. Yu. 9804
Shecheva, S. 8265
Sheen, S. J. 2114, 5273
Shehata, A. H. 1849, 4295, 6847, 7811
Sheik Dawood, A. 6926, 9674
Shekhawat, G. S. 1943, 7890
Shelabotin, G. P. 9152
Sheleg, Z. I. 9750
Shelepina, G. A. 758
Shelepov, V. V. 4893, 5779, 9495
Shelepova, V. I. 4893, 9495
Shelest, S. K. 8868
Shelestov, Yu. V. 7122
Shelkoudenko, V. G. 546, 2132
Shelud'ko, L. A. 9024
Shen, M. L. 333
Sheng, Y. -S. 352
Sheng, Y. S. 352
Shenk, J. S. 9593, 9695
Sheodhan Singh 173
Sheopuria, R. R. 4828, 6773
Shepel', N. A. 5890
Shepelev, V. M. 8607
Shephard, M. C. 2714

Shepherd, C. J. 4181
Sher Mohammad Malik 2250
Sher Singh 5237
Sherbaev, B. Sh. 1544
Sherbayev, B. Sh. 1544
Sherengovyĭ, P. Z. 9117
Shereverya, N. I. 6825
Sheriff, R. A. 6037
Sherman, W. B. 2238, 3888, 6198, 6237
Shestopalova, R. E. 8589
Shetscheva, S. 8265
Shevchenko, V. E. 3622
Shevchenko, V. N. 8963
Shevchuk, T. 5660, 8526
Shevchuk, T. N. 9531
Shevelukha, V. S. 8528
Shevtsov, I. A. 4474, 4924, 5203
Shevtsov, V. M. 1891
Shevtzov, I. A. 5203
Shibaev, P. N. 4223
Shibata, M. 4376
Shidenko, Ĭ. Kh. 7254
Shifrin, Ju. 8351
Shih, C. 8074
Shih, C. Y. 6962, 8074
Shikina, A. P. 9466
Shildrick, J. P. 351, 5125
Shilovskiĭ, V. N. 9670
Shimamoto, Y. 4476, 5259
Shimazaki, Y. 315
Shimiza, Y. 7145
Shimizu, T. 4591
Shimotsuma, M. 6384
Shimoya, C. 2122
Shimura, I. 3900, 5450, 6301
Shinde, J. E. 1938
Shinde, V. K. 3252, 8364
Shindô, K. 7878
Shindo, K. 7878
Shinjo, C. 3662, 3663, 7886
Shinjyo, C. 3662, 3663, 7886
Shinkareva, I. K. 7137
Shinoda, H. 3673
Shinoto, Y. 8414, 9320
Shinozaki, M. 6121
Shirko, V. N. 3194, 10122
Shirshov, V. A. 9718
Shiryaeva, Ė. I. 9868
Shishkina, I. S. 1018, 1785, 2578
Shivanandaiah, M. P. 6914
Shivanandappa, N. 290
Shivanna, K. R. 4777
Shivashankar, G. 8337
Shiyomi, M. 318
Shkurenko, S. V. 9421, 9424, 9435
Shkurikhina, A. K. 6744
Shkvarnikov, P. K. 1727, 9766
Shlapunov, V. N. 3599
Shmaraev, G. E. 58, 59, 213, 1087, 2742, 4973, 5603, 5834, 6842, 9602
Shmatavichyus, Ė. 3006
Shmat'ko, I. G. 8606, 8611, 8612
Shmilliár, M. 6091
Shnaĭder, T. 547, 1776
Shnaĭderman, Ya. A. 1748
Shoferistov, E. P. 9095
Shoferistova, E. G. 6215, 9095
Sholokhova, V. A. 4519
Shono, K. 7141
Shopina, V. V. 4263
Shopova, K. 4968, 9599
Short, T. 10114
Short, T. H. 1573, 1574, 10113, 10115
Short Term Leaflet, Ministry of Agriculture, Fisheries and Food, UK 5344
Shoshan, C. 205
Showalter, R. K. 6440
Showers, W. B. 255
Shpiler, L. Kh. 8336
Shree Pal Singh 2976, 9654
Shrivas, S. R. 5309
Shrivastava, J. P. 4418
Shrivastava, M. N. 1160
Shrivastava, M. P. 1639, 1640
Shrivastava, M. S. 4212
Shrivastava, P. S. 4365, 8365
Shrivastava, S. N. 6678
Shtan'ko, A. V. 9910
Shugaeva, E. V. 3851, 6008, 9931
Shukarov, L. 6404
Shukene, Yu. Yu. 2555, 3445
Shukla, T. C. 5922
Shukry, M. W. 102, 216, 3449, 4833, 6681, 6683, 7765
Shul'ga, M. S. 4740
Shul'ga, P. M. 1213
Shulindin, A. F. 7757
Shulyndin, A. F. 86, 1856, 3431, 5724, 6707, 6709, 7757, 9422, 9533
Shumaker, J. R. 6369
Shumilin, P. I. 839
Shumny, V. K. 2383
Shumnyĭ, V. K. 460, 2383, 4076, 9560
Shumnyy, V. K. 4076
Shuravina, L. G. 9912
Shutak, V. G. 5357
Shutova, Z. P. 349, 9701
Shvalkovska, L. V. 6374
Shyam Prakash 9000
Shyama Gopal 5838
Shylko, T. S. 9534
Siba, S. 3900
Sibbitt, L. D. 8551, 9472
Siddiq, E. A. 5086, 6922
Siddiqi, Z. A. 8273
Siddiqui, K. A. 154, 997, 1024, 3493, 4215, 7719
Siddiqui, M. R. 7175
Sidel'nikova, M. M. 1104
Sīdenko, I. O. 6853
Sidheswar Prasad 1075
Sidhu, A. S. 5594
Sidhu, B. S. 7108
Sidhu, G. 2716, 2717, 2718
Sidorov, F. F. 1072
Sidorova, K. K. 1629, 4742, 7502, 7503, 8350, 10154
Sidortseva, T. N. 7796
Sieczka, J. 2020
Sieczka, M. T. 5189
Siedel, D. 7859
Siegel, A. 4686
Siegel, M. 3623
Sienkiewicz, M. 2315, 2357
Sienkiewicz-Plucińska, M. 7381
Sierra-Bracero, A. 1313
Sievers, E. 656
Sievert, R. C. 7151, 7152, 8071
Sigurbjörnsson, B. 5082
Sij, J. W. 2573
Sijpesteijn, A. K. 4018, 4175
Sikan, L. Z. 121
Sikharulidze, N. G. 9986
Sikka, K. C. 3480
Sikora, I. 2809
Sikora, R. A. 8315
Silant'eva-Alekseeva, R. P. 7127
Silbernagel, M. J. 1628
Sil'chenko, V. M. 2401
Silen, R. R. 5482
Silis, D. Ya. 5713, 7697
Silva, A. R. da 2601, 6777
Silva, C. G. 584
Silva, F. 5337
Silva, J. 1101, 2650
Silva, M. A. T. De 4595
Silva, M. L. F. J. 6134
Silva, M. S. C. de 582
Silva, M. U. J. De 584
Silva, M. V. e 8791
Silva, N. V. e 1924
Silván, A. 6104
Silveira, A. P. da 9165
Silvela Sangro, L. 4761
Silvestri, G. 3997, 4694, 4697, 6394
Silvetti, E. 4717
Simbwa-Bunnya, M. 3847
Simchen, G. 189, 9516
Šimek, J. 4442, 8890
Simeonov, B. 4304
Simidchiev, T. 3026, 3859, 6302
Simidčiev, T. 3026, 3859
Siminel, V. D. 3450, 4226, 5695
Siminovitch, D. 7756
Simmons, D. 9188
Simmons, J. W. 9799
Simmons, M. 9799
Simões, V. 2602
Simon, I. 2604
Simon, J. -L. 1465
Simon, J.-L. 3080
Simon, M. 5462, 10059
Simon, U. 392
Simon-Wolcsánszky, E. 6829
Simonian, E. G. 4662
Simonov, A. 4012
Simonov, A. A. 3187, 4005
Simonova, T. T. 3049
Simons, A. B. 9708
Simons, H. A. 7367
Simons, M. D. 4268
Simonsen, Ø. 1176
Simonyan, E. G. 4662
Šímová, O. 3384
Simovski, K. 3880
Simplício Duarte, A. 1924
Simpson, C. E. 1374
Simpson, G. 2482
Sims, E. T., Jr. 625
Sims, H. J. 4883
Simtea, N. 2769
Šimůnek, L. 6430
Sin, G. 6465
Sinclair, J. B. 832, 4068
Sinclair, W. A. 3132, 7346
Sindagi, S. S. 2977
Šindelář, J. 5478, 5480
Sinden, S. L. 2853, 2855, 5205, 7028
Sindile, N. 3956, 7447, 9274, 9309
Sindyukova, N. I. 10098
Sinel'nikova, V. N. 1244, 7024
Sinenko, L. V. 7803
Singh, A. 1864, 8876
Singh, A. B. 2130
Singh, B. 7748
Singh, B. B. 9647
Singh, B. D. 1898
Singh, B. P. 1162, 2570, 2829, 2901, 5013, 5306, 5862
Singh, B. R. 9015
Singh, C. B. 820, 3666, 5786, 5915, 7315, 8009
Singh, C. S. 6974
Singh, D. 3429, 3454, 3542, 4272
Singh, D. P. 483, 6062
Singh, D. R. 9015
Singh, D. V. 278, 944, 6427, 6886
Singh, G. R. 1421
Singh, H. B. 1902
Singh, H. D. 158, 5030
Singh, I. D. 472, 2059, 3763
Singh, I. S. 2254
Singh, J. 4285
Singh, J. K. 811, 2360
Singh, J. N. 1612
Singh, J. P. 1100, 1238, 2254, 2359, 9233
Singh, K. B. 129, 811, 819, 1011, 2360, 2378, 2392, 6473
Singh, L. 6765
Singh, N. N. 4322, 8674
Singh, O. S. 752, 3983, 9453
Singh, R. A. 8795, 9499
Singh, R. B. 456, 467, 7449
Singh, R. D. 1777, 9997
Singh, R. K. N. 4572
Singh, R. P. 465, 1240, 8286
Singh, R. S. 6784, 8315
Singh, S. B. 2687, 3459, 4322
Singh, S. M. 2797, 5152
Singh, S. N. 4624
Singh, S. P. 164, 476, 2075, 2393, 4212, 4828, 6773
Singh, T. B. 248
Singh, T. H. 5219, 6051
Singh, T. P. 6473, 7477
Singh, V. P. 5711, 7521
Singhvi, S. M. 5307
Single, W. V. 2566
Sinha, A. C. 6071
Sinha, B. C. 8743
Sinha, M. K. 2223
Sinha, R. N. 2501
Sinha, S. 303
Sinha, S. K. 3467, 4084, 5823, 5824, 8623
Sinha, S. S. N. 847
Sinha, V. C. 177, 9641
Sinigovets, M. E. 4845
Sinitsyn, S. S. 9471
Sinjkova, G. 2235, 7295
Sink, K. C., Jr. 9249
Sinkevich, A. I. 3442
Sin'kova, G. M. 2235, 7295
Sinnadurai, S. 70
Sinotô, Y. 8414, 9320
Šinská, J. 5898
Sinskaya, E. N. 1703
Sipoș, G. 4035
Siregar, H. 5045
Siritsa, A. S. 8719
Siritsa, B. N. 4337
Siritza, B. N. 4337
Sirohi, G. S. 5897
Sirohi, P. S. 2305, 9238
Sirota, N. P. 9103
Sirota, N. S. 7128
Sisodia, K. P. S. 1952
Sistrunk, W. A. 5567, 6373
Sitaramaiah, K. 8315
Sithanantham, S. 9844
Sitte, P. 7534
Sitterly, W. R. 2318
Sivanaser, M. 5046
Sivasubramaniam, S. 6926, 9674
Siwecki, R. 682
Siwi, B. H. 5045
Sizov, V. 3984
Sjödin, J. 5498
Skachkova, L. V. 4254
Škaloud, V. 6156, 8100
Skazka, G. R. 7247
Skiebe, K. 4108, 6526, 9361
Skipp, R. A. 2368
Skirvin, R. M. 4114
Sklifasovskiĭ, V. A. 8569
Sklyarova, N. P. 6026, 8904
Skobelkin, A. I. 1169
Skoog, H. A. 1328
Škorić, D. 4511
Skoropanov, S. G. 6628
Škorpík, M. 7382, 7732
Skov, H. 8491
Skrdla, W. H. 1705
Skripnikova, Z. V. 5331
Skryagin, E. P. 3590
Skucińska, B. 10074
Skupova, O. P. 10070
Skvortsov, A. K. 1512, 1684
Skvortsova, S. 9810
Skwara, H. 7021
Slatkin, M. 1665
Slavcheva, R. 3935
Slavkov, M. 5266
Slavnaya, T. S. 4726
Slavov, S. 4000
Slayback, R. D. 3690
Sleper, D. A. 8813
Slepushkina, G. P. 9759
Slesaravichyus, A. K. 4925
Slinkard, A. E. 1972, 8354
Sloane, L. W. 4733
Slovenčíková, V. 1809, 5781
Slović, D. 8144
Slușanschi, H. 7956
Sluys, W. K. C. van der 3148
Slyusarenko, A. G. 3150, 9504
Smak, C. 5758
Smaliukas, D. 1391
Small, E. 1296
Smalley, E. B. 3129, 3130, 7345
Smalyukas, D. Yu 1391
Smartt, J. 3212
Smeeton, B. W. 517
Smeltzer, G. G. 3536
Smetannikova, A. I. 1703
Smiley, J. H. 520, 2940, 8054

Smirnitskaya, P. P. 1795
Smirnov, A. G. 3056
Smirnov, V. G. 899, 4275
Smirnov, Yu. A. 8607
Smirnova, A. D. 7766
Smirnova-Ikonnikova, M. I. 9701
Smirnova, L. A. 1043
Smith, A. 359
Smith, A. T. 778
Smith, B. N. 2759, 6942, 8810
Smith, B. W. 7449
Smith, C. F. 1099
Smith, D. 7452, 9806
Smith, D. H. , Jr. 188
Smith, D. R. 8725
Smith, E. V. 6334
Smith, F. W. 5881
Smith, G. A. 2907, 4485, 9881
Smith, H. C. 6673
Smith, H. H. 525, 2429, 2925, 4837, 7649
Smith, I. H. E. 5393
Smith, J. B. 2506, 6668, 7119, 7452
Smith, J. C. 9509
Smith, J. D. 2426, 4094, 8815
Smith, J. F. 6507
Smith, J. W. M. 3160
Smith, M. M. 6955
Smith, M. W. G. 1393
Smith, P. M. 7914
Smith, P. R. 6235
Smith, R. B. 3951
Smith, R. L. 3633, 5790, 8561
Smith, R. R. 2813, 8859
Smith, R. T. 6787
Smith, T. F. 6506
Smith, W. E. 6057
Smith, W. H. 1508
Smithson, J. B. 7085, 8907
Smoček, J. 1745, 3483, 6763, 7677
Smolarz, K. 1437, 1443, 1444, 2237, 5403
Smoliak, S. 3718
Smol'skaya, A. V. 3584
Smouse, P. E. 6497
Smrž, J. 2096, 8048, 8049
Smythies, B. E. 8372
Šnaider, T. 547, 1776
Snee, R. D. 3144
Snejd, J. 8650
Snetsinger, R. 445
Snoad, B. 2384, 10156
Snoek, N. J. 4671
Snow, G. A. 3947
Snoy, M. L. 8608
Snyder, F. W. 4483
Snyder, W. C. 3249
Soares, W. V. 1109
Sobchuk, V. V. 10163
Sobczykiewicz, D. 1443
Sobell, H. M. 15
Sobolev, N. A. 9307, 10159
Sobotka, F. E. 6417
Sobótka-Wierzbowicz, J. 6176
Sociu, S. 3355, 3956, 9274, 9309
Soczek, Z. 9949, 10006
Sode, J. 4746
Soderstrom, T. R. 9713
Soeffky, A. 5433
Sohan Singh Saini 1932
Sohi, H. S. 5446
Sohoo, M. S. 409, 2392
Sokol, A. A. 3626
Sokol, P. F. 790
Sokolov, B. B. 4301
Sokolov, B. P. 1062, 4932
Sokolov, O. A. 7900
Sokolov, P. M. 5909
Sokolov, V. A. 1117, 8350
Sokolov, V. S. 7206
Sokolova, E. P. 9091
Sokolova, I. I. 9675
Sokolovskaya, A. P. 7908
Sokołov, W. S. 7206
Solanki, K. R. 4948
Solanki, S. S. 10132
Solbrig, O. T. 1656
Soldatini, G. 773, 5526
Soldatov, K. I. 5316
Soler Llinares, M. C. 3426
Soliman, A. S. 3767
Soliman, M. M. 5225
Solomatin, D. A. 57
Solomko, E. A. 8886, 9766
Solomon, S. 9646
Solonenko, L. P. 7752
Solonenko, T. A. 4935
Solov'eva, N. 2335
Solov'eva, N. A. 6413
Solovjeva, N. . 2335
Solpico, F. O. 2734
Solpico, J. O. 2041
Soltanovskaya, G. A. 9021
Somaroo, B. H. 1224, 3716
Somasekhara, K. V. 10081
Somboon Pakdi 534
Somers, L. 8233
Somorowska, K. 6010, 6011
Somos, A. 6996
Son, S. H. 3639
Sondahl, M. R. 7153
Sonea, V. 6228
Sonnenberg, P. E. 4676
Sonoda, T. 5257
Sońta, S. 7262
Sood, P. N. 5318
Soomro, A. A. 5048
Soós, L. 9318
Soost, R. K. 630, 2226, 3040
Sopalova, E. V. 3876
Sopko, M. 9586
Sopory, S. K. 4112
Šopova, M. 8270
Sorensen, E. L. 4412, 5156
Sorensen, P. 6494
Soressi, G. P. 8394, 9229, 9245
Sorge, P. 3905
Soriano, J. D. 3659, 8333
Sorochinskaya, M. A. 2077, 7098
Sorsa, P. 6273
Šoškić, A. 8142, 8163, 9084
Šoškić, J. 5347
Šoškić, M. 5347, 7274
Soskov, Ju. D. 9685
Soskov, Yu. D. 9685
Sosnikhina, S. P. 4275
Sosunova, Z. L. 4946
Sotchenko, V. S. 8680
Sotirov, A. 2215, 3019
Soule, J. 6248
Sousa, C. V. de 2162, 7181
Sousa, F. P. 916
Sousa, J. N. B. de 3774
Sousa, L. da C. e 3103
Sousa, L. O. M. da C. e 3105
South African Sugar Association Experiment Station 6065
South African Sugar Journal 5239
South African Sugar Technologists Association 1302
Southards, C. J. 10124
Southwell, I. A. 7347
Southwood, O. R. 1218
Souto, S. M. 8767, 9717, 9751
Souty, M. 626, 671, 10051
Sowa, J. 3612
Sowa, W. 994
Sozinov, A. A. 5762, 7677, 8478, 8599
Spain, J. M. 9383
Spallacci, P. 8672
Spanring, J. 6882
Sparks, D. 2266
Sparnaaij, L. D. 3839
Sparrow, A. H. 17
Spasoff, L. 2951
Speckmann, G. J. 362
Spence, J. R. 7071
Spiegel-Roy, P. 3037, 5386, 8184
Spiegelman, S. 7541
Spillane, P. A. 9481
Spillane, T. A. 9552
Spirkov, D. 7172
Spitsyn, I. P. 9119
Sponholz, W. R. 5200
Sprenger Instituut 9050
Spurling, A. T. 9237
Squillace, A. E. 7352
Sree Ramulu, K. 298, 2725, 5685, 7875
Sree Rangasamy, S. R. 286, 326, 2725
Sree Rangaswamy, S. R. 5685
Sreekantaradhya, R. 9649
Sreenivasan, T. V. 491
Sri Hardinah 6367
Sridhar, R. 4395, 5120, 5931, 6929
Sridhar, T. S. 5446
Sridharan, C. S. 2165, 6151
Srikantaiah, B. 6914
Srinath, D. 5906
Srinivasa, H. P. 7676
Srinivasachar, D. 475, 5996
Srinivasan, K. 5540, 7088
Srinivasan, T. R. 2896
Srinivasulu, G. 284
Srinivasulu, K. 1148, 5913
Sripathi Rao, B. 2179
Srivastava, A. N. 1375
Srivastava, D. N. 1943, 5119
Srivastava, D. P. 320, 1933, 9644
Srivastava, H. C. 7287
Srivastava, P. S. 4776, 9339
Srivastava, S. K. 6444
Srivastava, S. N. S. 430
Srivastava, U. S. 5599
Srivastava, V. B. 1808
Srivastava, V. K. 821, 1938, 8316
Stack, S. 33, 35, 9217
Stafford, R. E. 5253, 9911
Stahmann, M. A. 280
Staicu, I. 7825
Staicu, Ş. 8400
Staïkov, V. 2169
Staikov, V. 6168
Staïkov, V. 6168
Stainier, F. 805, 8269
Stairs, G. R. 1491
Stajić, N. 8142, 9084
Stall, R. E. 6376
Stallknecht, G. F. 2849
Stam, Ya. M. 7167
Štambera, J. 2319
Stamboliev, M. 4607
Štampar, K. 9108
Stan, S. 6839
Stančević, A. S. 3024, 3025, 3875, 3883, 8173, 8174, 9089, 9158
Stancu, E. 3794, 4021, 7114
Standridge, N. N. 1901, 5009
Stanef, I. 4625
Stănescu, C. 3927, 4626
Stănescu, D. 4626, 5435
Stanev, D. 6489
Stanev, P. 9550
Stanger, C. E. 505
Stanghellini, M. E. 1324
Stanimirović, M. 3929, 8218, 8223
Stanisavljević, D. 3565, 3596
Stankov, I. 1769, 2536, 2537, 3436, 4850
Stanković, D. 7252
Stanley, R. L. 8561
Stanley, R. L., Jr. 2779, 8718
Stanley, S. M. 4779
Stanojević, S. 3111
Staphorst, J. L. 6973, 9014
Staples, I. B. 382
Stark, P., Jr. 3856
Stark, R. 7217
Starks, K. J. 1146
Starling, T. M. 8750
Starova, N. V. 6316
Starzycki, S. 929, 994, 8476
Starzyński, K. 5664
Staszewicz, K. 6998
Staszewski, Z. 3702
Staszkiewicz, J. 7355
Staten, G. 453
Statens Forsøgsvirksomhed i Plantekultur 9369
Staticescu, P. 7115
Station d'Amélioration des Plantes Maraîchères, Montfavet 9211
Statler, G. D. 1801, 2593, 7759, 8632, 9507
Staton, H. C. 6464
Staub, T. 2312, 3155
Staudt, G. 647, 5430, 6282, 7321, 8217
Stavely, J. R. 1338, 2946, 2947, 7147
Stavnilchuk, V. G. 6680
Staykov, V. 2169
Stearn, W. T. 1198
Stebbings, G. L. 778
Stebbins, G. L. 2460
Steenkamp, C. J. 8069
Steenmeijer, H. P. 9712
Stefan, K. 1248
Ştefan, N. 8160
Ştefan, V. 6409
Ştefănescu, N. 8671
Stefanoff, B. 7340
Stefanov, B. 7340
Stefanov, T. 5015
Stefanowska, G. 2622
Štefl, M. 7018
Stehlík, V. 1317
Steinberger, J. 3308, 3312, 7753
Steineck, O. 7003
Steiner, G. W. 496
Steiner, K. G. 3826
Stel'makh, A. F. 4765, 8352, 9863
Stelter, H. 7035
Stembridge, G. E. 625
Stent, G. S. 869
Stenvert, N. L. 161
Stepanenko, G. S. 8945
Stepanishchev, N. A. 4195
Stepanov, V. N. 10068
Stepanova, F. P. 9075
Stepanova, G. I. 9497
Stepanova, L. P. 9732
Stepanova, S. I. 1216, 1221
Stepanova, T. V. 9790
Stepanova, V. I. 9691
Stepanova, V. M. 1620
Stepanyan, T. G. 7437
Stephan, B. R. 2285, 4641
Stephens, S. G. 8923
Stephenson, A. P. 7182
Sterling, J. D. E. 3536
Stern, H. 32
Stern, J. A. 10117
Stern, K. 690, 1478, 7356
Stettler, R. F. 681
Steuckardt, R. 6969, 7932, 8850
Stevens, M. A. 2340, 4700
Stevenson, N. D. 8037
Stevenson, W. R. 10172
Stewart, D. M. 6768
Stewart, J. K. 6375
Stewart, R. H. 370
Stewart, V. R. 3457, 4342
Stieber, J. 7739
Stierwalt, T. R. 7793
Stilinovic, A. 1982
Ştirban, M. 6287
Štith, L. S. 2054, 2065
Stoenescu, F. 2980, 3837, 8101, 8103, 8106, 9008
Stoenescu, F. M. 8096
Stoev, K. 3098, 3099
Stoian, E. 8229
Stoian, V. 5438, 8400
Stoicescu, M. 3956, 9274, 9309
Stojkovska, A. 10042
Stolarska, E. 2019
Stolberg, S. 5716, 7738
Stølen, O. 8757
Stoletov, V. N. 3349
Stoltz, L. P. 762, 5414
Stolyarenko, V. S. 6825
Stolzy, L. H. 1779
Stone, B. A. 6955
Stone, E. G. 8941
Stoner, A. K. 5537, 6400, 7445
Stopczyk, K. 3551
Storchschnabel, G. 736

Storey, J. B. 6300
Storey, W. B. 10000
Stoskopf, N. C. 151, 2507
Stott, K. G. 603, 6320
Stout, J. T. 1854
Stow, I. 3624
Stoy, V. 912
Stoyanov, D. 7284
Stoyanov, S. 5356
Stoyanova, M. 4489
Stozarowa, I. A. 716
Stozharova, I. A. 716
Strakhova, T. S. 4657
Straley, C. S. 4417
Strand, E. 108, 3382, 6662
Strandberg, J. O. 4658
Strandjev, A. 8137
Strandzhev, A. 8137
Strange, R. N. 2496
Străulea, M. 9942
Straumal, B. P. 7049
Strautina, E. 2827
Street, F. T. 6227
Street, H. E. 40
Street, O. E. 531, 8975
Strekopytov, G. M. 9715
Strelkov, I. G. 5989
Strel'nikova, T. R. 5844
Stretch, A. W. 6259
Strickland, R. W. 9684
Strijdom, B. W. 6973, 7488, 9014
Stringam, G. R. 2833, 7166
Strobeck, C. 6496
Strobel, G. A. 4417, 8036
Stroewsand, G. S. 8222
Stroganov, V. G. 6635
Stroh, J. R. 2780
Stroia, I. 7851
Stroike, J. E. 103, 107, 9405
Strukov, A. V. 6055, 9830
Stryckers, J. 8641
Strydom, D. K. 6234
Strzyżewska, C. 3705
Stubbe, H. 4001, 4002, 5534
Stubbs, R. W. 178, 7770
Stuber, C. W. 1068, 9562
Stucker, R. E. 9580
Stuczyński, E. 7918
Sturelid, S. 4026, 4103
Sturma, M. 4869, 6147
Stushnoff, C. 3059
Styles, B. T. 5453
Styles, E. D. 6822
Su, K. C. 567
Su, S.-H. 1920
Su, S. P. 3651
Suard, C. 2398, 7613
Subachyus, A. I. 3714
Subba Rao, M. S. 1593, 8342
Subba Rao, N. S. 6974
Subbarayalu, M. 5912
Subbiah, B. V. 5771
Subbotina, N. V. 7281
Subda, H. 5686
Subero, L. J. 2978
Subero M., L. 1877
Subhashini, L. 2926
Subhendu Chaudhuri 4822
Subrahmanyam, N. C. 2692, 4347, 8744, 8745, 9624
Subramaniam, S. 580
Subramaniam, T. R. 1423, 9839
Subramanian, K. S. 10174
Subramanyam, K. N. 6009
Subramanyam, S. 6378, 9239
Suchánek, A. 1638
Suciu, T. 7548
Sudha Panke 9571
Sudo, S. 4719, 9256
Suerth, C. J. 648
Sugahara, Y. 4017
Sugar Bulletin 7106
Šugar, I. 9313
Suge, H. 6879
Sugimoto, T. 1323
Suginobu, K. 9733
Suginobu, K.-I. 9733
Sugiyama, S. 2975
Suhonen, I. 5494
Sukhanov, V. M. 8701
Sukhanova, N. T. 3349
Sukhija, P. S. 5220, 9929
Sukom Rugsachat 322
Suleĭmanov, D. S 2262
Sulimava, R. M. 7272, 9122
Sulinowski, S. 2774, 3685, 5950
Sullins, R. D. 5900
Sullivan, C. R. 4643, 5473
Sullivan, D. T. 7240
Sullivan, S. L. 402
Sullivan, T. P. 1613
Sultan, M. O. 580
Sultanov, J. H. 6672
Sultanov, S. 1701
Sumenkova, V. V. 4726
Sunarjono, H. 4665, 6367
Sundara Babu, P. C. 1423
Sundara Rao, W. V. B. 6466
Sundara Rao, Y. R. 672
Sundaram, N. V. 1145, 1753
Sundaram, S. 3654
Sundaram, V. 8922
Sundheim, L. 841, 7511
Sung, C. H 531, 2935, 2936, 8975
Sunich, L. 6770
Suomi, K. 2234
Surányi, D. 3017, 7260
Surapong Kosiyakinda 7576
Surendran, C. 1968
Surikov, I. M. 899, 1052, 1770, 3290, 3538
Surita, E. A. 2147
Surjan Singh 5525
Surkova, L. I. 9731
Suryanarayana, D. 177
Susalla, A. 7138
Sushchinskaya, E. N. 7005
Susheela Devi, L. 5112
Sushko, E. A. 5878
Sushko, M. T. 10048
Suslyakov, V. S. 3401
Sutherland, J. 9500
Šutić, D. 9113
Sutka, J. 7731
Sutton, L. M. 9580
Suyatinov, I. A. 10034
Suzdal'tseva, V. A. 9956
Suzuki, A. 3358
Suzuki, I. 4017
Suzuki, O. 5256
Suzuki, S. 4405
Šváb, J. 927, 1115, 7847
Švachulová, J. 2612, 3276, 5002
Sveatchevici, M. 7379, 7441, 8277, 9212, 9222
Svec, L. V. 2711
Svejcar, V. 3931
Svenson, H. K. 5465
Svensson, G. 5705, 6666
Sveriges Utsädesförening 4116
Sveriges Utsädesförenings Tidskrift 936
Světlík, V. 2761
Svirežev, J. M. 3258
Svirezhev, Y. M. 3258
Svits, G. H. 3603
Svizeva, T. 8489
Svoboda, A. M. 2284
Svoboda, W. E. 7490
Svobodova, D. 5463
Swallers, C. M. 3836
Swaminathan, M. 5540
Swaminathan, M. S. 3461, 5086, 6754, 6940
Swaminathan, R. 5912, 9674
Swamy, G. S. 1425
Swamy Rao, T. 2131, 3575, 4462, 5813, 6148
Swan, E. P. 5476
Swardt, G. H. de 9083
Swart, P. de 3729
Swarup, V. 2359, 3157
Swearingin, M. L. 81
Świetlińska, Z. 270, 4101
Swietlinska, Z. 4101
Świetlińska, Z. 4102
Swietlinska, Z. 4102, 4768
Świetlińska, Z. 4768
Świeżyński, K. 1231, 2020
Świeżyński, K. M. 5182, 5184, 5190, 5998, 9755
Swindale, L. D. 6655
Swindell, R. E. 10140
Swingle, H. D. 740, 809, 3209, 7964, 9927
Swiniarski, E. 4441, 6016
Świszczewska, J. 5188
Sybenga, J. 1053, 2621, 7784, 8649
Syed, M. M. 2088
Sykes, J. T. 2097, 2184, 7259
Sykin, A. G. 429
Sylvester-Bradley, R. 1126
Syme, J. R. 1030, 3471
Symes, K. J. 2517
Symko, S. 6716
Syôno, K. 7141
Syrach-Larsen, C. 1476
Sysoev, A. F. 1000, 8508, 8530, 9600
Sz.-Borsos, O. 5174, 6991
Szabó, J. 6659
Szabó, L. 934, 1007, 1370, 1595, 6670
Szabó, L. G. 4852
Szabó, L. Gy. 4852
Szabó, M. 7745
Szalay, D. 987
Szalay, F. 7387, 8268
Szalay-Marzsó, L. 4172
Szczepański, K. 9073, 10009
Szederkényi, E. 2628
Szego, A. 8236
Székely, I. 8193
Szél, S. 8013
Szenczenko, G. I. 8027
Szepieniec-Gajos, A. 5971
Sziklai, O. 1531
Szilágyi, G. 992
Szirtes, J. 1121, 6884, 7842
Szklarska, J. 2092
Szőnyi, L. 1496
Szopkó, M. 9586
Szota, Z. 8040, 9859
Szpiniak, B. 3521
Szücs, Á. 1595
Szunics, L. 4900, 8627
Szürke, J.-né 7891
Szwadiak, J. 1564
Szweda, M. 1444, 3881
Szyrmer, J. 5569
Słaboński, A. 8756
Tăbăcaru, C. 7273
Tabata, S. 5789
Tabuchi, H. 318
Tabuenca, M. C. 2190, 2218, 6303, 6304, 8134, 8183
Tabushi, J. 2546
Tachibana, H. 3239, 6467
Tachibana, S. 4564
Tafurt R., R. 3077
Tagieva, L. A. 6239
Tagmaj'yan, I. A. 9494
Tagumpay, O. 5090
Taha, M. W. 9991
Tahara, M. 5506
Tahbaz, F. 3964
Tai, G. C. C. 418, 2840
Tai, P. P. 6271
Taira, H. 1937, 2746, 4061, 4062, 4387, 4391, 5578
Taira, T. 140
Tait, B. A. 2810
Takahashi, M. 1149, 1322, 5100, 5255, 6916, 6917, 6918, 7888
Takahashi, M.-e. 1322
Takahashi, N. 4667, 5820, 6827
Takahashi, R. 2690
Takanishi, K. 5365
Takasaki, Y. 5159
Takayanagi, K. 4955
Takeda, K. 1149, 6918, 7883, 7888
Takeda, T. 5245
Takehisa, S. 5616
Talaat, E. H. 1042
Talaat El-Wakeel, A. 4593, 5394, 5424
Talambă, D. 7408
Talanov, V. V. 4182
Tălpălaru, E. 5522, 6402, 8304
Tălpălaru, G. 5522, 8274, 8282, 8304
Talukdar, B. S. 2533
Talvitie, H. 5750
Tamaka, H. 3895
Tamarova, A. F. 9162
Tamaş, L. 7858, 7956
Tambiah, M. S. 583
Tamura, S. 2455
Tan, G. Y. 9699
Tanabe, H. 5257
Tanaka, A. 4316, 4385, 5075
Tanaka, H. 364
Tanaka, J. S. 5539, 6028, 6419
Tanaka, K. 1019
Tanaka, M. 3453
Tanaka, N. 1671
Tanaka, S. 1929
Tanaka, S. T. 2654
Tanaka, T. 1109, 5105
Tănăsescu, C. 3079
Tănăsescu, F. 2329
Tănăsescu, I. 5557
Tandeau de Marsac, N. 528
Tandon, S. L. 9302
Tango, J. S. 6249
Tani, T. 2618
Tanisaka, T. 4097
Tanna, S. R. 281
Tanner, J. W. 244, 3577
Tanosaki, S. 7692
Tantravahi, R. V. 1883
Tantsyura, D. 9464
Tantsyura, D. F. 2577, 9463
Taova, L. A. 6826, 6838
Taper, C. D. 593
Tapia Barquero, H. 4284
Tapu, Z. 5715
Târa, G. 6287
Tarakanov, G. I. 6392
Taran, L. D. 9461
Taranchuk, M. S. 9363
Taranukha, G. I. 3428
Taranukho, G. I. 9748
Tarapada Chatterjee 38
Tarasenko, N. D. 23, 5001, 5855, 5878
Tarasenko, T. E. 1125
Tarasenkov, I. I. 716, 4653, 6341
Tarasenkow, I. I. 716
Tarasevich, E. I. 3145, 9680
Tarasov, A. V. 98
Tarasov, S. F. 8762
Tarasov, V. A. 884
Tarasova, E. M. 3962, 6356
Tardieu, M. 5804
Tarin, L. D. 3401
Tarjot, M. 4503
Tarkowski, C. 948, 2622, 8484
Tarnakina, L. G. 9442
Tarnovska, K. 4709
Tarnowska, K. 4709
Tarosova, E. O. 7437
Tartier, L. 6355
Tarumoto, I. 5891
Tarutina, L. A. 1069, 4759
Tașcă, G. 3079
Tasceno, V. 7956
Tashmatov, N. T. 6048
Tatachari, Y. 1425
Tatara, A. 7845
Tatarova, V. 4830, 5775
Tatarova, V. K. 9459
Tătaru, V. 4334, 4897, 4940
Tatebe, T. 729
Tateoka, T. 8834
Tatu, C. 3794, 4021, 7114
Tatum, L. A. 217
Tauy, J. M. 6132
Tavadze, M. E. 5384
Tavčar, A. 1851, 7451
Tavdumadze, K. R. 8060
Tavella, C. M. 1759
Tavrin, É. V. 4841
Tay, J. T. 2586
Taylor, A. J. 182
Taylor, C. O. 10111
Taylor, D. P. 1946
Taylor, G. A. 1817, 4233, 4891
Taylor, G. B. 5162
Taylor, G. S. 5587

Taylor, J. S. 8356
Taylor, N. L. 1979, 8857
Taylor, R. H. 3115
Taylor, R. J. 8831
Taylor, R. L. 5946, 6665
Tayyab, M. A. 296
Tea Research Association, Calcutta 3822, 3823
Tea Research Institute of Ceylon 8073
Tea Research Institute of East Africa 6131
Teakle, D. S. 2731
Teaotia, S. S. 9997
Teare, I. D. 2395, 2573
Teaşcă, G. 4898, 6774
Technical Bulletin, Ministry of Agriculture, Fisheries and Food 6195
Tedoradze, S. G. 5558, 9271
Teetes, G. L. 8782
Tehrani, G. 4146, 4575
Teich, A. H. 3037, 5386, 8184
Teixe, L. 983
Tekhneryadnova, P. T. 9171
Teliga-Nowicka, Z. 6796
Telkiev, G. 9550
Templer, J. C. 5281
Teng, Y. C. 313, 2745, 6910
Teodorescu, I. 8340
Teodorescu, Ş. 5439, 6291
Teodorescu, Ş. C. 8219
Teodosievski, D. 4505
Teplova, E. A. 4310, 7803, 9598
Ter-Avanesyan, D. V. 2880, 7047, 7994
Terasmaa, T. 3140, 7363
Terchenko, A. T. 7056
Teregulov, Kh. G. 6101
Tereshchenko, N. M. 4414, 8847
Tereshchenko, T. P. 4556
Terhune, S. J. 853
Ternovskiĭ, M. F. 1332, 6125, 8058
Ternovsky, M. F. 1332, 6125
Terrier, A. 7327
Terrill, T. R. 2117, 8971
Terrington Experimental Husbandry Farm 6612
Terzian, R. T. 8116
Terzyan, R. T. 8116
Teshabaev, K. A. 8007
Teshabaeva, R. I. 8007
Tesi, R. 9253
Tešić, M. 8145, 8158
Teskey, B. J. E. 596
Tešović, Ž. 2189
Tešović, Ž. V. 7251
Testa, F. 3820
Teşu, C. 4974
Tetangco, M. A. 2897
Teteryatchenko, K. G. 6730
Tewari, R. 10125
Tewari, R. N. 2359
Tewari, S. N. 1132, 1133, 7865
Teyssandier, E. E. 6445
Teyssendier de la Serve, B. 7940
Thaden, R. T. 8830
Thaegarajan, K. S. 2274
Thakare, R. B. 5882
Thakur, D. P. 9055
Thakur, M. R. 7411
Thakur, P. C. 571
Thakur, R. 8743
Thakur, R. N. 5233
Thamburaj, S. 9821, 10104
Thandavarayan, K. 2165
Thapliyal, P. N. 832
The Coconut Industry Board, Jamaica 3043
The, T. T. 7763
Thenabadu, M. W. 3670
Theurer, J. C. 2091, 3143, 3792, 4481
Thibaut, J. H. 4469
Thielges, B. A. 680, 1526
Thies, W. 3832
Thirumalachar, D. K. 5547
Thoday, J. M. 44
Thomas, C. A. 559, 1371
Thomas, C. A., Jr. 6510, 6511, 6512, 6513, 6514
Thomas, E. 40
Thomas, E. T. 2689
Thomas, G. E. 5484
Thomas, H. 192, 193, 4916, 7778
Thomas, J. B. 5727
Thomas, P. E. 2346
Thomas, P. L. 7546
Thomas, P. M. 7164
Thomas, R. L. 6956, 7177
Thomas, T. H. 6371
Thompson, A. E. 514, 792, 1578
Thompson, A. J. 9729
Thompson, D. L. 3598
Thompson, E. W. 45, 4115
Thompson, F. C. 6145
Thompson, J. M. 6205
Thompson, J. R. 9665
Thompson, K. H. 7649
Thompson, L. S. 650
Thompson, M. M. 2209
Thompson, N. R. 2856, 2857, 3737, 4440
Thompson, R. 5497
Thompson, R. K. 2680, 2684, 9543, 9723
Thompson, S. S., Jr. 9891
Thomson, A. J. 8821
Thomson, N. J. 3752, 5218, 6030, 6031, 6032
Thonart, P. 8836
Thornburg, A. A. 2780
Thseng, F.-S. 3231, 3232, 5577, 6453, 6454, 9288
Thurston, H. D. 7659
Thurston, R. 8979
Thyr, B. D. 3190
Tianu, A. 4066
Ţiculescu, D. 3914
Tidsskrift for Frøavl 1588, 1627, 3720, 6978
Tietz, H. 2884
Tigchelaar, E. C. 4692, 4693, 4712
Tikhonov, V. A. 9964
Tikhonov, V. E. 3489, 9483
Tikhonova, A. D. 4810
Tikhvinskiĭ, S. F. 8010
Tikku, P. L. 456
Timariu, A. 7700
Timberlake, C. F. 6320
Time, E. K. 7036
Timiryazev, K. A. 9322
Timmis, J. W. 2886
Timoféeff-Ressovsky, N. W. 3258
Timofeev, A. A. 404, 8864
Timofeev, N. 777
Timofeev-Resovskiĭ, N. V. 3258
Timofeev, V. B. 145, 982
Timon, B. 4584
Timoshenko, I. I. 8889, 9780, 9781
Timoshenko, M. 6406
Timoshenko, Z. V. 203
Tîmpeanu, I. 4051, 4940
Tinarelli, A. 1165, 4397, 6922
Tineo Gonzales, J. R. 9578
Tingey, D. T. 791, 1622, 7378
Tingle, J. N. 2510
Tiomov, N. 7797
Ţîrcomnicu, M. 3838
Ţîrcomnicu, M. 4515
Tirimanna, A. S. L. 8121
Ţîru, I. 7956
Tishchenko, A. P. 10086
Titëv, G. M. 9576
Titov, K. G. 1805
Tiwari, K. P. 4976
Tiwari, R. 5194
Tiwary, D. N. 1740
Tjiptosuhardjo, S. 3899
Tkachenko, I. K. 9564
Tkachenko, V. I. 4807
Toader, M. 3079
Tob. Reptr. 2920
Toba, H. H. 4681, 7410
Tobacco, Roma 3804
Tobgy, H. A. 1829
Tocchetti, G. 3070, 3071
Toda, M. 1750, 4856
Toda, T. 704
Todaka, S. 4017
Todd, E. H. 4463, 4464, 4465, 4466, 4467, 4468
Todd, G. W. 8618
Todorov, G. 2631, 3572
Todorov, I. 727
Todorov, I. 2309
Todorov, I. 4747, 5588, 6276
Todorov, J. 727, 2309
Todorov, Y. 4747, 5588
Todorova, L. 3523
Todua, V. A. 8060
Tognazza, B. 9595
Tognoni, F. 773
Toit, A. F. du 7816
Tokarev, B. I. 2383
Tokmakov, Yu. G. 6345
Tokumasu, S. 8091
Toler, R. W. 1975
Tölgyesi, G. 933
Tolin, S. A. 1106
Toll Jubés, J. 2233
Tolmsoff, W. J. 471
Toma, C. 5164
Toma, L. 2200, 10071
Toman, F. R. 2281
Tomar, G. S. 813, 1592, 6482, 7515
Tomar, Y. S. 2394
Tomaszewska, Z. 2133, 5304
Tomaszewski, Z. 2133, 5991, 7950, 8835
Tombesi, A. 627
Tomeau, A. 7871
Tomer, R. S. 456
Tomes, M. L. 1734
Tomescu, F. 6839
Tomeu, A. 1141, 1142, 1143, 1916, 2720, 2721, 2722, 5028, 7872
Tomilina, T. V. 6892
Tominaga, N. 3900
Tominaga, Y. 7212
Tomita, T. 5109
Tomiyama, K. 6020
Tomkins, D. J. 2432
Tomov, N. 2933, 7795, 9550
Tomov, N. I. 9599
Tomozei, I. 4943
Tompa, B. 3087
Tompa, B.-né 7319
Tonosaki, T. 8162
Toorn, J. van der 9716
Topalov, V. 3850
Topchieva, A. 5147, 7934
Toplé, S. G. 10035
Torbits'kiĭ, O. Ĭ. 6169
Torbunov, N. T. 3784
Torchyan, A. K. 4194
Torikata, H. 2201, 4591, 9092
Toriyama, K. 3673, 5058, 5077, 8793
Torje, D. 3768, 6450, 6682
Torjian, A. K. 4194
Torjyan, A. K. 4194
Toropova, G. N. 9079
Torosyan, Ts. A. 4906
Torre, C. de la 27, 894, 2445, 2446, 2448, 2450, 3281
Torre, G. della 4713
Torre, R. de la 1227
Torregroza, M. 9541
Torres Bogado, L. A. 8913, 8914
Torres M., R. 3077
Torres-Sepulveda, A. 7288
Torres Torres, E. 7395
Torrey, J. G. 7505
Torssell, R. 6651
Toševa, A. 6276
Tosheva, A. 6276
Tosheva, T. 3608, 9550, 9601
Tosic, M. 5129
Tóth, J. 8313
Totubalina, G. V. 6196
Toul, V. 6477
Toutain, G. 9998
Touvin, H. 1005
Tovar Parra, D. 5026
Townley-Smith, T. F. 3414, 3415, 7610
Townsend, A. M. 2282, 4639
Townsend, C. E. 8873
Toxopeus, H. 1348
Toyama, S. 784
Tôyama, S. 784
Tr. in-t botan. AN KazSSR 9420
Trabalzini, N. 3070, 3071
Trahan, G. B. 344
Trahan, G. J. 4733
Trajkovski, V. 6255, 6256
Trapeznikov, V. K. 6744
Traut, H. 6523, 7560, 8398
Trautner, R. 9350
Travis, D. M. 7547
Trebushenko, E. I. 9077
Trebushenko, P. D. 9063, 9077
Treccani, C. P. 8292, 9229
Treece, L. E. 6035
Tréfás, A.-né 7714
Tréfás, G. 7714
Trehan, K. B. 821, 2138
Trémolières, A. 9730
Trenbath, B. R. 9525
Tretjakov, R. V. 1907
Tret'yakov, R. V. 1907
Trevisan, W. L. 2645
Tribunskiĭ, A. N. 7090
Trifonov, D. 3022, 4577, 5448, 9112
Trifonov, N. P. 8012
Trifonov, S. 9550
Trifonov, V. F. 1286
Trifonova, E. N. 7803
Trifonova, L. L. 8148
Trinajstić, I. 9313
Tripathi, R. S. 2732, 9997
Tripathi, S. K. 1612
Trishin, S. E. 3419
Trivedi, R. N. 10094
Trnka, M. 6793
Trofimov, V. A. 4320, 5817, 8716
Trofimova, O. S. 2383, 7752, 8886
Troníčková, E. 6393, 7382, 7413
Trotman, C. H. 9479
Trotsenko, A. G. 4370
Troughton, J. H. 4720
Trouin, M. 5128
Troxler, J. 7792
Troyer, A. F. 1058
Trubchaninov, A. D. 7688, 8628
Trudgill, D. L. 2036, 3748
Truel, P. 1457
Trujillo, G. 5122
Trujillo, G. E. 7470
Trujillo, P. M. 387, 4430, 7240
Trukhinova, A. T. 124, 9427
Trunova, T. 3499
Trupp, C. R. 8591
Trushina, O. I. 9864
Truskinov, É. V. 4019
Truzaki, K. 5267
Trzebiński, J. 1736
Tsai, C. M. 6132
Tsai, C. Y. 1863, 9592
Tsai, K. H. 321
Tsakadze, T. A. 9960
Tsangas, F. T. 712
Tsarénya, M. P. 7272
Tsay, J. M. 6132
Tschäpe, M. 3380, 6743
Tschemidzogsol, A. 7834
Tschermak, É. 6624
Tschermak-Seysenegg, E. von 9361
Tsekhmistrenko, P. E. 2255, 9173
Tsen, C. C. 156, 9428
Tseng, F. S. 3231, 3232, 5573, 6453, 6454, 9288
Tseng, S. T. 5085
Tseng, Y.-S. 8408
Tsenov, A. 2519
Tsenov, A. S. 3504

Tsereteli, G. L. 9087, 9960, 9961
Tsetskhladze, L. M. 9987
Tsikov, D. 2537, 2542, 3359, 4850, 5268
Tsikova, E. 5268
Tsil'ke, R. A. 4958
Tsitokhtsyan, G. P. 6698
Tsitsin, N. V. 986, 2278, 5667
Tso, T. C. 530, 7142
Tsonev, Ts. 3479
Tsu, S. K. 94
Tsuchiya, R. 3621
Tsuchiya, S. 5179
Tsuchiya, T. 2548, 2549, 5852, 7837
Tsukada, T. 4856
Tsulukidze, M. M. 8567
Tsumoto, Y. 3541
Tsunewaki, K. 162, 2531, 3498, 5766, 6695
Tsunoda, S. 4668, 5074
Tsuranova, L. G. 9675
Tsuyama, H. 5358
Tsuzuki, E. 1155, 1156
Tsuzuki, K. 6121
Tsvelev, N. N. 1186, 1187, 1954, 7675, 7905
Tsvelyov, N. N. 1186
Tsvetkov, S. 2519, 3434, 7704
Tsvetkov, S. M. 3504
Tsvetkov, V. 659, 5422
Tsvetkova, F. 7384
Tsvetkova, V. I. 6826
Tsygankov, I. G. 9484
Tsyganok, E. K. 4921, 8658
Tubertini, R. 3727
Tucker, B. B. 6906
Tucović, A. 3125, 3126
Tudge, C. 8986
Tudor, A. 4580, 6653
Tudose, I. 5721
Tudosie, A. D. 8211
Tuĭchiev, A. V. 2062
Tuinbouwberichten, Belgium 1539, 6423
Tukeeva, M. I. 3349, 9565
Tuleen, D. M. 1920
Tuleen, N. A. 3423, 8584
Tuminauskas, S. A. 3948
Tunaru, F. 3914
Tung, G. 1878
Tung, I.-J. 2739, 8785
Tung, Y. C. 2739, 8785
Tuohey, C. L. 9486
Turała, K. 744
Turbin, N. V. 967, 1858, 3715, 3790, 4860, 5658, 5992, 7954, 8043
Turkov, V. D. 758, 3955, 6342
Turner, C. E. 2082
Turner, G. J. 7196
Turner, J. R. G. 1654
Turner, R. G. 366
Turnipseed, S. G. 4069
Turovtsev, N. I. 3023, 9118, 9979
Turovtseva, A. G. 9102, 9106
Turowska, M. 7205
Tuşa, C. 7760, 7761, 7851
Tutberidze, B. D. 3893, 5382
Tutin, T. G. 9315
Tutt, C. 827, 1979, 3228
Tutt, C. R. 83, 7671
Tuvardzhieva, L. V. 10095
Tuypý, J. 5295
Tuz, A. S. 3874, 5363
Tuza, S. 8112
Tverdokhleb, N. S. 5780
Tveretinova, V. V. 2775
Twamley, B. E. 2828
Tyagi, A. P. 4351
Tyagi, D. V. S. 1892
Tyagi, O. D. 4323
Tyagi, P. D. 172
Tyazhel'nikov, S. D. 9240
Tymieniecka, E. 3537, 7691
Tynybaev, M. T. 9437, 9438
Tyrnov, V. 9378
Tyrnov, V. S. 1077, 5615, 8696, 8701
Tyson, H. 2887, 8933
Tyszkiewicz, M. 7355
Tyunikov, I. G. 8685
Tyurin, Yu. S. 9718
Tyuterev, S. L. 3474
Tzvelev, N. 1187, 1954, 7675, 7905
U and I Cultivator 504
Ubilla R., C. 7456
Ubysz-Borucka, L. 1520
Uchimiya, H. 3658, 5820
Uchiyamada, H. 7878
Udachin, R. A. 95, 955, 2523, 3486, 7689
Udachina, E. G. 9981
Udalov, V. V. 1004, 4222
Udovitskiĭ, A. S. 7040
Ueda, K. 7692
Ueng, I. N. 2944, 2950
Ueno, Y. 1543
Ugale, S. D. 7421
Ugulava, N. A. 4629
Uhliar, J. 7927
Uhlík, J. 848, 5590, 5591
Ukai, Y. 3256, 9324
Ul'icheva, G. I. 2356
Ulinici, V. 6810
Ullrich, J. 4180
Ullstrup, A. J. 7828
Ulmer, R. L. 5754, 9473
Ulonska, E. 264
Ulpiu, C. M. 8190
Ulvinen, O. 6864
Ul'yanishcheva, A. M. 2196, 2199
Ul'yanova, N. P. 3770
Uma, M. C. 2074
Uma Menon 412
Umærus, M. 912
Umærus, V. 912
Umiel, N. 2303, 3959
Umuraliev, M. U. 6636
Uncini, L. 8299
Underbrink, A. G. 17
Underwood, V. H. 3095
University of Agricultural Sciences, Hebbal 5648
University of Birmingham 4134, 9351
University of Nottingham, School of Agriculture 9359
University of the West Indies 5288, 6643
Untila, I. P. 9402
Ünver, E. 5753
Upadhya, M. D. 2016, 2837, 3460, 7968
Uppal, D. K. 2223
Uppal, D. S. 6422
Uprety, D. C. 5751, 7748
Urata, U. 9709
Urazaliev, R. A. 1767, 5760
Urbanc, A. 7400
Urbanová, J. 1646
Urbanska-Worytkiewicz, K. 3199
Urbonas, A. 9969
Ure, C. R. 6232
Urie, A. L. 2141
Urso, G. 3451, 4227
Ursu, T. 4238
Usanis, R. A. 865, 1515, 4093, 5482
Usik, G. E. 5524
Uslu, İ. 8203
Usman, S. 9666
Usmanov, P. D. 7499
Usov, A. G. 9066
Usui, K. 9320
Uthamasamy, S. 9839
Utkhede, R. S. 6893
Utz, H. F. 8552
Uyemoto, J. K. 5447
Uzcátegui L., C. 7103
Üzek, B. 8203
Uží, M. 5987
Užik, M. 5988
Užík, M. 6987
Uzunovski, M. 518
Vacek, V. 2764
Václav, E. 3944, 5461
Vaclav, V. 4067
Váczi, D. 4967
Værdal, J. 8891
Vagera, J. 135
Vágnerová, V. 5968, 7936
Vaishanani, N. L. 4521
Vajaypal 3776
Vakar', B. G. 5441
Vakhtina, L. I. 1542
Vakis, N. I. 9761
Valaĭnis, A. 4170
Valat, C. 7322
Valberg, E. 7944
Vălčev, V. 3069, 3099
Valdeyron, G. 1730, 7651, 8369
Valdivia B., V. 8093
Valdivia M., G. 6353
Văleanu, L. 3913
Valen, L. van 1683
Valencia A., G. 5287, 7155
Valencia, I. G. 6922
Valentine, D. H. 9315
Valentine, F. A. 6314, 6318
Valíček, P. 9812
Valkoun, J. 6807
Valkova, Z. 8306
Valle, E. 5137
Valle-Lamboy, S. 7288
Valle, O. 5137, 7948
Vallega, J. 4909, 7678
Valodzin, U. G. 8687, 9440
Valovnenko, V. T. 5990
Váňa, V. 4022
Vančo, B. 5987
Vančo, R. 7953
Vandam, J. 974
Vang-Petersen, O. 8135
Vanhanen, L. 425
Vanier, P. 8200
Vanin, I. I. 607, 9082
Váňová, M. 9635
Vanstallen, R. 2905
Varady, C. 85, 1746, 4937, 9386
Vardabasso, A. 7144, 7148
Vardanyan, Dzh. A. 1762
Vardanyan, J. A. 1762
Vardanyan, K. H. 4208
Vardi, A. 130
Vardzelashvili, M. G. 9985
Varenitsa, E. T. 967, 4843, 6675
Varga, A. 6081
Varga, P. 5158, 6498
Vargas, L. A. 3744
Varghese, B. M. 767
Varghese, T. M. 5303
Varma, R. 2350
Varmani, S. 4272
Varney, E. H. 648
Vartanyan, K. A. 4208
Vartolaş, E. 3173
Varughese, G. 4832
Varuntsyan, I. S. 7048
Vasal, S. K. 4296
Vasarainen, A. 1958
Vasev, A. 5346
Vashistha, R. N. 1552
Vasilenko, I. I. 967, 1702, 8477
Vasil'ev, N. F. 6626
Vasilev, V. N. 2267, 3118
Vasil'ev, V. N. 7335
Vasil'eva, E. K. 8588, 8597
Vasil'eva, L. I. 1214
Vasil'eva, L. M. 1623
Vasil'eva, L. P. 3988
Vasileva, M. 1675
Vasil'eva, V. E. 10076
Vasilj, Đ. 9561
Vasilyauskas, Yu. F. 8869
Vas'ko, V. T. 1826
Vassilev, V. N. 2267, 3118
Vassiljev, V. 7335
Vassiljeva, L. 1214
Vasyaeva, Z. S. 1957
Vatana Satiansavat 7574, 7575
Vaughan, J. G. 396
Vaught, H. 7671
Vaulx, R. D. de 2170
Vaverova, E. V. 9060
Vavilov, N. I. 13
Vavilova, M. 4433
Vávra, M. 6624, 8501
Vavříková, M. 9773
Vazhnitskaya, E. F. 8879
Vazhnitskiĭ, E. F. 5175
Vázquez, A. M. 2623
Vdovtseva, T. A. 1413
Vedrov, N. G. 8581, 8619
Vedysheva, R. G. 7516, 10128
Veech, J. A. 1581
Veeraswamy, R. 3225, 3251
Veerraju, V. 8797
Vega, A. V. de 8201
Vega O., P. C. 7801
Vega O., U. A. 8667
Vega, P. C. 1832
Vega, U. 4931
Vega, U. A. 7800
Veĭdenberg, A. Ė. 4558
Vela-Cardenas, M. 197
Velanker, S. V. 4212
Velasco, P. H. 1386
Velásquez, F. 9894
Velazco, F. 8664
Veldhuyzen van Zanten, J. 4651
Veldkamp, J. F. 8828
Velemínský, J. 2612, 3276, 3620, 5002, 6871, 7839
Vélez Fortuño, J. 7307
Vélez, J. R. 5089
Velibekov, M. D. 8801
Velican, V. 5703
Veliev, I. M. 7057
Velkov, D. 3136
Velkov, V. 1418, 9129
Vello, F. 1349, 2963, 2967, 4501, 6143
Vellore Nagarajan 1876
Vengrenovskiĭ, S. I. 8846, 8847
Venkateswarlu, J. 6898, 9753
Vent, L. 6146
Vent, W. 1351
Ventslavovich, F. S. 7195
Ventslovats, R. 2554
Ventura, M. 8827
Venturi, G. 1886, 5515, 9234, 9254
Venugopal, K. 5863
Venugopal, N. 9582
Ven'yaminov, A. N. 8165, 9098, 9101, 9102, 9105, 9982
Verderevskiĭ, D. 8227
Verderevsky, D. D. 8227
Verenitsa, E. T. 6766
Vereš, A. 3111
Vereshchagin, G. A. 9673
Vergara, B. A. 5072
Verhalen, L. M. 9799
Verma, A. N. 9515
Verma, J. P. 465
Verma, M. L. 1379
Verma, M. M. 2687
Verma, S. C. 2016, 6992
Verma, S. N. P. 810, 812
Vermeire, H. A. 5870
Vernet, J. L. 3938
Vernidubova, È 6379
Verr, W. J. 88
Vershinin, V. A. 10021
Veselá, M. 7947
Veselova, E. P. 1590
Veselovskiĭ, I. 426, 7032, 7429, 7972, 7973
Veselovskiĭ, I. A. 1237, 1250
Veselovsky, I. A. 1237, 1250
Vesova, N. 9225, 9226
Vest, G. 4739
Vestrheim, S. 5404
Victoria, C. 3923
Vida, G. 7646, 7655
Vidéki, L. 4224
Videnin, K. F. 5331
Videnov, B. 6188, 6219, 8150
Vidhyasekaran, P. 289, 553, 5445, 5884
Vidner, J. 1243, 8888
Vidović, O. 4031, 4039, 9276
Vidyabhushnam, R. V. 8781
Vieira, C. 1591, 1608, 3216, 3217, 3235, 4038, 4721
Vielmetter, W. 7535
Vieru, R. 6267
Viets, F. G., Jr. 5258
Vig, B. K. 3229, 4057, 10146

Viglási, P. 991, 6734
Vigorov, L. I. 9078
Vigouroux, A. 9137
Vijaya-Bai, K. 1326
Vijaya, J. J. S. 3800
Vikram Singh 3632
Viktorova, A. V. 1293
Vîlceanu, G. 6351
Vilenskaya, G. M. 9230
Vilkova, N. A. 7662, 9691
Villanueva Novoa, R. 8631
Villarreal C., E. 2729
Ville, G. S. 10028
Villegas, E. 8691
Villena, W. 4300
Vîlsănescu, T. 10041
Vimal Mehdi 5751
Vincent, A. 1005
Vincent, A. P. 9141, 9143
Vincent, C. 2398
Vincent, G. 5456
Vincent, G. B. 2646
Vincent, J. M. 6965
Vindhyachal Singh 6899
Vineș, I. 6839
Vinogradov, N. P. 1468
Vinogradov, V. A. 1468, 6125
Vinogradova, V. V. 3496
Vinokurova, E. N. 6890
Vinovets, A. D. 4555, 8139
Violić M., A. 2633, 8676
Vir, B. S. 3776
Virbickas, P. 8656
Virbitskas, P. I. 8656
Virbitskene, S. 2814
Virdi, B. V. 4602, 4603
Virk, D. S. 2687, 3459, 4874, 9452
Virmani, S. S. 5087, 8790
Virtucio, R. R. 2041
Vis, E. G. 8189
Visarion, M. 4021
Vishanska, Yu. V. 3116
Vishnevskiĭ, A. 8293
Vishnevskiĭ, P. I. 5669
Vishwanatha, S. R. 8337
Visser, D. L. 3965, 9220, 9221
Visser, T. 3853
Vissova, V. I. 3644
Viswanathan, T. V. 9258
Visweswar Rao, K. 5899
Vitanov, M. 2210, 3018, 5370, 6217, 6218
Vitkovskiĭ, V. L. 57, 58, 618, 2998
Vitkovskij, V. L. 57, 58
Viuf, B. T. 4355
Vivar, H. E. 8734
Viveiros, A. 1274
Vlach, M. 963, 5698, 5755, 7732
Vlădescu, B. 8400, 9319
Vladimirov, B. 4009
Vladimirov, V. 3176
Vlădoianu, E. 3913, 6653, 8207
Vlas, I. 5901
Vlasák, M. 9498
Vlasenko, V. M. 9962
Vlasov, M. I. 9746
Vlasova, K. S. 3675, 8804, 8805
Vlassov, M. I. 9746
Vlasyuk, P. A. 8612
V"lchev, P. 2851
V"lchev, V. 3069, 3098, 3099
V"lchinkov, V. 2631, 4975, 7795
V"lkova, Z. 4000, 5523, 8306
Vlokh, V. G. 9768
Vnuchkova, V. A. 3178, 3179, 4004
Vodenicharova, M. 7197
Voevodin, A. V. 7742
Vogel, F. 6130, 9774
Vogl, M. 9190
Vogt, H. E. 9411
Vohra, S. 467
Voica, E. 6213, 6228
Voica, N. 6286
Voigt, P. W. 9710
Voinea, S. 2980
Voĭtenok, F. V. 7061
Voĭtovic, K. A. 2264
Voĭtovich, J. A. 8227
Voldeng, H. D. 6831
Vőler, L. 6849
Vol'f, V. G. 2985
Volkov, P. 5519
Volkov, V. L. 4436
Volkova, A. M. 3497
Volkova, V. T. 8535
Volodin, V. G. 8577
Volodina, E. V. 3057
Vološin, J. 2769
Volosky Y., E. 5488
Voluzneva, T. A. 1589
Vol'vach, P. V. 3030, 3869, 9086
Vorlíčková, B. 8041
Vorob'ev, V. A. 8600
Vorob'ev, V. F. 3469
Vorob'eva, E. A. 6870
Vorob'eva, G. A. 8575, 8806
Vorokhob, V. P. 8952
Voronchikhin, L. I. 1492
Voronchikhina, A. Ya. 1409
Voronina, M. V. 787
Voronina, S. A. 4902
Voronkevich, I. V. 939
Voronkova, A. A. 7766, 8628
Voronov, A. T. 7954
Vorpaev, V. N. 3784
Vos, A. L. F. de 2817
Vosa, C. G. 24, 3284
Voskanian, A. S. 885
Voskanyan, A. Z. 885
Voskoboĭnik, L. K. 4508
Voskresenskaya, V. V. 238, 6842
Votava, V. 218
Vrânceanu, V. 2980, 3837, 8101, 8103, 8104, 8106
Vrânceanu, V. A. 8096
Vries, A. P. De 144
Vries, W. de 1225
Vrkoč, F. 906
Vu Van Vu 2706
Vujanić-Varga, D. 8146
Vukov, K. 6089
Vulchev, P. 2851
Vulchinkov, V. 4975
Vulkova, Z. 4000, 5523
Vullioud, P. 3783
Vulpe, V. V. 4514, 5312
Vyahalkar, G. R. 7421
Vyas, S. P. 5308
Vyas, S. R. 386, 1976
Vyrmaskin, B. N. 1890
Vysokos, G. P. 9399
Vysotskiĭ, A. A. 6207
V'yushkov, A. A. 9491
Wada, B. 37
Wada, S. 5110
Wadley, B. N. 8178
Wagenaar, E. B. 2561
Wagenvoort, M. 7010
Wager, H. G. 6476
Wagner, G. 4775
Wagner, M. 1778, 2832
Wagner, V. J. 6902
Wahl, I. 8759, 8761
Waiblinger, K. 3254
Waidyanatha, U. P de S. 6179
Waines, J. G. 2609, 6749
Wakimoto, S. 336
Walczak, W. 6025
Walden, D. B. 2637, 4953
Walden, W. E. 916
Waldren, R. P. 2573
Walerych, H. 1579, 4011
Wali Muhammad, C. 2876
Walia, K. 7118
Walker, J. T. 275, 4165
Walker, W. M. 2990, 3233
Wall, J. R. 6386
Wallace, A. 2940
Wallace, A. M. 520, 8054
Wallace, A. R. 9342
Wallace, D. H. 2487, 6365
Wallace, J. M. 2225
Waller, C. W. 2081
Walles, B. 3
Walsh, D. E. 3417, 9410
Walsh, E. J. 8745
Wålstedt, I. 1130
Walter, T. L. 294, 1060, 6903
Walters, H. J. 1606, 2374
Walters, R. J. K. 357
Walters, S. M. 9315
Walters, T. L. 1061
Walther, F. 4239
Walther, H. 8720
Waltl, K. 3309
Walton, I. C. 7071
Walton, P. D. 3456
Walton, R. R. 1380, 1381
Wan, H. 2944, 2952, 4303, 6117
Wang, K. 4303
Wang, S. C. 8006
Wang, S. L. 3737
Wang, S. T. 5096
Wang, T. T. 4632
Wang, T.-T. 4632, 6961
Wanic, D. 3881
Waninge, J. 116
Wanjari, K. B. 2317
Ward, E. J. 8698
Ward, J. N. 6035
Warden, J. 2740
Wark, B. M. 2526
Warmke, H. E. 1915, 8507, 9657
Warner, R. L. 1895
Warnes, D. D. 168, 1904
Warren, J. F. 96, 1025
Was, L. 995, 4187
Wash, L. W. 4735
Washüttl, J. 423
Wassenaar, L. M. 3064
Wassink, E. C. 6175
Wastie, R. L. 2996
Watada, A. E. 6417
Watana Rungwatana 343
Watanabe, M. 3141, 7692
Watanabe, Y. 9672
Waterhouse, W. L. 6778
Waterworth, Y. 8185
Watson, C. E. 84
Watson, I. A. 179, 3677, 6778, 7767
Watson, J. 5371
Watson, J. E. 7951
Watson, L. 361
Watterson, G. A. 6519
Watterson, J. C. 3163
Wawrzyniak, M. 7262
Way, R. D. 594, 595, 600, 5350, 6200
Wear, J. I. 4425
Weaver, E. A. 7649
Weaver, J. B. , Jr. 472
Weaver, J. B., Jr. 1283, 2059, 3763
Weaver, S. H. 1863
Weaver, S. W. 9592
Weaver, W. H. 1597
Webb, A. D. 6292
Webb, C. 803
Webb, D. A. 9315
Webb, H. M. 2127
Webb, R. E. 2853
Weber, D. F. 232, 2638, 5816
Weber, Z. 3739, 6024
Webster, J. A. 188
Webster, O. J. 9651
Webster, P. L. 4771
Webster, R. K. 9678
Weeraratne, H. 5044
Weering, J. J. van 3841
Weetman, L. M. 4463, 4464, 4465, 4466, 4467, 4468
Węgorek, W. 9794
Weibel, D. E. 1139, 1146
Weilenmann, F. 3372, 3464, 6664
Weiling, F. 272, 8385, 8387, 8391
Weimarck, A. 9419
Weimarck, G. 5141
Weinert, E. 9926
Weinheimer, W. H. 1854
Weir, B. S. 5011, 5012
Weis, G. G. 8732
Weisæth, G. 3967
Weiser, C. J. 3059, 4443, 5209
Weiss, B. 856
Weiss, G. B. 6505
Weissenböck, G. 8638
Wellman, A. M. 1666
Wells, K. L. 1747
Welsh, J. 3472
Wensley, R. N. 4680
Wepster, B. M. 8232
Werner, E. 2019, 2843, 5183, 5191, 6998
Wernsman, E. A. 2413, 3808, 8066, 8067, 8980, 9291
West Indies Central Sugar Cane Breeding Station 6068
West of Scotland Agricultural College 8469
West, W. C. 4451
Wester, H. V. 2273
Westerberg, P. M. 1084
Westergaard, M. 4107
Wet, J. M. J. De 241, 242, 1682, 2654, 9659
Wettstein, D. von 4107
Wettstein-Knowles, P. von 265
Wettstein, W. 674
Whalley, R. D. B. 4266
Whalley, W. M. 5587
Wheeler, J. E. 2664, 8916
Wheeler, R. E. 1388
Whelan, E. D. P. 2323, 7418
Whitaker, P. A. 7123
Whitaker, T. W. 3166
White, D. 4722, 4734
White, F. H. 1329, 2916, 8982
White, G. A. 1298
White, G. L. 93
White, J. A. 1879
White, J. M. 1108, 7425, 7496
White, L. O. 2788
Whitehead, A. G. 4817
Whitehead, E. I. 8746
Whitehouse, R. N. H. 7666
Whiteman, P. C. 6485, 7518
Whitmore, J. L. 5471
Whitney, E. D. 3796, 4486
Whitney, P. J. 396
Whittington, W. J. 2338, 5949
Whitwell, J. D. 1548
Wichert-Kobus, I. 6112, 7136
Wichura, M. 8388
Wickham, I. 9625
Wicks, G. A. 5905
Widdowson, J. P. 6966
Widodo, R. 4665
Widstrom, N. W. 252, 253, 1102, 1103
Wiebe, J. 4150, 4153, 4155
Wiggen, K. 7511
Wightman, J. A. 2038
Wilberg, B. 9218
Wilcox, J. R. 1604, 7479, 10145
Wilcoxson, R. D. 363
Wilczkowska, J. 2128
Wilde-Duyfjes, B. E. E. de 9214
Wilde, W. J. J. O. de 655
Wildman, S. G. 3809
Wiley, R. C. 1868
Wilhelm, S. 2884
Wilken, L. 7207
Wilkes, H. G. 4992
Wilkins, H. D. 980, 7716
Wilkins, P. W. 6943
Wilkinson, B. G. 7228
Wilkinson, J. F. 9686
Wilks, J. H. 4753
Will, H. 6915
Willemot, C. 9730
Willetts, H. J. 3519, 7769, 9506
Willey, L. A. 1318, 5248, 5261
Williams, B. W. 4451
Williams, C. 4733
Williams, C. A. 380, 6960, 9146
Williams, D. H. 84, 387, 4430
Williams, E. 1839, 6947, 6948
Williams, E. B. 608, 1398, 5565
Williams, E. D. 9711
Williams, G. J. , III 689
Williams, J. A. 5285
Williams, J. R. 1799
Williams, J. T. 6891

Williams, N. D. 8554, 8576
Williams, N. E. 9606
Williams, P. H. 2312, 3155, 3163, 6388
Williams, R. J. 5016, 5545
Williams, R. R. 5345
Williams, W. M. 2818, 3710
Williams, W. P. 9562
Williams, W. T. 3223
Willing, R. R. 5457
Wilms, H. J. 7784
Wilsie, C. P. 5156
Wilski, A. 443, 444
Wilson, B. J. 9266
Wilson, D. 372
Wilson, D. B. 6828
Wilson, F. D. 8927, 9827
Wilson, J. A. 5084
Wilson, J. F. 7227
Wilson, J. H. 7855
Wilson, K. G. 7547
Wilson, L. A. 2872, 7043, 9796
Wilson, R. L. 8927
Wilson, V. E. 2395
Wilten, W. 5871, 5872
Wimalajeewa, D. L. S. 938
Winiger, F. A. 6002, 6004, 6005
Winkel, A. 5935
Winslow, R. D. 1251
Winstead, J. E. 2281
Winters, H. F. 5343
Wiseman, B. R. 253, 310, 1102, 1103, 5903
Wiser, W. J. 252
Wiśniewska, J. 5361
Witcombe, J. R. 4797
Witham, F. H. 6972
Withers, L. A. 5666
Wittenbach, V. A. 4688
Witters, R. E. 4081
Wittmer, G. 7143, 8973
Woessner, R. A. 675, 1517
Wöhlert, W. 7113
Wojciechowska, B. 2830, 2831, 4426
Wojciechowska, H. 7027
Wojciechowski, J. 1579, 4011
Wójcik, A. R. 6025
Wölbing, L. 5800
Wolf, H. 9350
Wolf, M. J. 1867
Wolfe, M. S. 3388, 9396
Wolff, F. de 214
Wolff, R. M. S. 5157
Wolffhardt, D. 3305
Wolford, E. R. 8199
Wolfram, B. 6226, 7270
Wolski, T. 3408, 3535, 3537, 7685, 8643
Wolters, A. H. G. 1053
Wolterson, J. F. 6321
Woltz, S. S. 2343
Wong, M. 10177
Wong, S.-H. 4303
Woo, S.-C. 2739
Woo, S. C. 6962
Woo, S.-C. 8785
Wood, E. A., Jr. 1146
Wood, F. A. 683
Wood, G. A. 612, 623
Wood, G. M. 9692
Wood, P. J. 695
Woodford, E. K. 4402
Woodham, A. A. 1122, 1123
Woodham, R. C. 3115
Wooding, F. J. 951, 9708
Woodruff, D. R. 4873
Woolley, D. G. 2646
Worker, G. F., Jr. 293
Worker, G. F., Jr. 1136
Workman, R. B. 6369
World Crops 2441, 2610, 2971
World Farming 551, 3589
Worthington, R. E. 1377
Wouters, W. 55
Woyke, H. 1541, 2314
Woyke, T. 480, 5305, 7099
Woynarowska, S. 1609, 9287
Woźniak-Strazembicka, A. 3513
Wredin, A. 2295, 8493
Wricke, G. 8645
Wright, A. J. 8485, 8821
Wright, D. S. C. 7132
Wright, G. M. 169, 194
Wright, J. W. 4633, 5472
Wright, K. 4109
Wrigley, C. W. 5765
Wrigley, G. 2898
Wu, C. M. 2739
Wu, C. T. 1343, 1344, 6132
Wu, D. K. 2943
Wu, J. K. 537, 2935, 2936, 2950, 2952
Wu, K. 1962
Wu, L. 367
Wu, L. C. 9314
Wu, S. C. 2739, 6962, 8785
Wu, T. K. 2952
Wu, T. P. 7559
Wu, T-P. 7559
Wu, Y. L. 333
Wullstein, L. H. 1204
Wünsch, A. 2858
Wuttke, W. 9065
Wyatt, C. E. 1747
Wyk, R. J. van 4495
Wyllie, T. D. 830
Wynne, J. C. 2988
Wyse, R. E. 2091, 4479, 4480, 4482
Xavier, K. S. 478
Yablokov, A. S. 8244
Yablokov, Yu. N. 1632
Yablonskiĭ, E. A. 4554, 7243
Yabuno, T. 2750
Yachevskaya, G. L. 4845
Yadav, N. K. 386, 1976
Yadav, S. C. 4976
Yadava, C. P. 7896
Yadava, T. P. 201, 5306, 5307
Yadava, U. L. 7249
Yadrov, A. A. 8241
Yaegashi, H. 5930
Yagi, M. 3900
Yakimenko, N. P. 10168
Yakimenko, N. S. 5247, 7116, 8944
Yakovlev, A. G. 9645
Yakovlev, A. P. 3349, 9250, 9563, 9565
Yakovlev, G. V. 7385, 10078
Yakovlev, S. P. 5362
Yakovuk, A. S. 2108
Yakubtsiner, M. 6748
Yakubtsiner, M. M. 3502, 6738, 8477
Yakushevskiĭ, E. S. 6901
Yamada, M. 4955
Yamada, N. 6924
Yamada, S. 3895
Yamada, T. 6419
Yamagata, H. 4097
Yamagouchi, M. 5490
Yamaguchi, H. 5917, 7845
Yamaguchi, J. 4316
Yamaleev, A. M. 9501
Yamaleeva, A. A. 127, 4219
Yamamoto, M. 2865, 3900, 7030
Yamamoto, T. 4737
Yamazaki, W. T. 1021, 4201
Yambao, A. N. 2734
Yanagita, K. 5930
Yanakieva, E. 3816
Yanchenko, A. A. 1062
Yanda Gouder, B. A. 71
Yang, C. B. 3991
Yang, C. N. 3657
Yang, F. P. 313, 6910
Yang, N. S. 1845
Yang, S. C. 1147, 3674
Yang, S. K. 8074
Yang, S. L. 2514, 4359
Yang, T. C. 2860
Yang, Y. L. 531, 2935
Yantasast, A. 1942
Yap, T. C. 1120, 7830
Yarchuk, T. A. 6799, 9602
Yarina, G. N. 3475
Yarmolyuk, G. I. 8947, 9861
Yarosh, N. P. 9675
Yarotskaya, L. V. 2259
Yartiev, A. G. 9718
Yarvekyul'g, L. Ya. 3282
Yash Paul 5838
Yashagashvili, G. G. 9457
Yashina, I. M. 5193, 5197, 7008
Yashovskiĭ, I. V. 5019, 5879
Yaskonis, Yu. A. 4089, 5595
Yassem, M. 9866
Yassin, A. M. 4710
Yassin, T. E. 5550
Yastrebov, F. S. 5024
Yasue, T. 4388
Yasumuro, Y. 4863
Yawney, H. W. 2280
Yazdi Samadi, B. 9011
Yeates, G. W. 6966
Yeoman, M. M. 8403
Yepes Agredo, S. 3696
Yermanos, D. M. 552
Yeung, K. C. 2541, 5725
Yoder, C. G. 4688
Yoder, O. C. 2665, 8724
Yohe, J M. 2372
Yohe, J. M. 10140
Yok-Hwa, C. 1178
Yokayama, S. 676
Yokoo, M. 9671
Yonezawa, K. 4097
York, J. O. 257, 8768
Yoshida, K. 4437
Yoshida, M. 4437
Yoshida, S. 316, 331, 949, 5073
Yoshida, T. 3818
Yoshikawa, H. 4014
Yoshikawa, M. 2618
Yoshioka, S. 5179
Young, D. A. 418
Young, F. P. 313, 6910
Young, J. C. 868
Young, J. K. 9286
Young, M. F. 1607
Young, R. 632, 633
Young, R. J. 2864
Young, S. 1380, 1381
Young, W. R. 8778
Youngs, C. G. 9306
Youngs, V. L. 3530
Younis, S. 2668, 2669
Yousufzai, I. K. 2879
Yu, C. Y. 9797
Yudin, B. F. 8708
Yudina, Z. G. 3500
Yuhara, I. 9298
Yukhimchuk, F. F. 7954
Yuldashev, T. 1287
Yunoki, T. 3673
Yunuskhanov, Sh. 2062
Yurchenko, V. V. 1672, 3955
Yurina, A. V. 9236
Yurina, O. 1551, 5511, 8289
Yurtsev, V. N. 5945
Yushkov, S. D. 8571
Yusupov, B. Yu. 1190
Yyéki, J. 8156
Zaadbelangen 7963
Zablots'ka, K. M. 9080
Zaborowska, D. 4101
Zadina, J. 2040, 2836, 5212, 8882, 8902, 9787
Zadoks, J. C. 953
Zadorozhnaya, G. A. 7954
Zadorozhniĭ, V. Z. 7017
Zadražil, K. 7693
Zadražil, S. 3276, 3620, 6871
Zafar Husain Abidi 2134, 2135
Zafar, M. I. 243
Zagaja, S. W. 9064, 9946
Zaginaĭlo, N. 6171
Zaginaĭlo, N. N. 5329
Zagorcheva, L. 3167, 4669
Zagorska, N. A. 7137
Zagorskaya, N. A. 7137
Zagrekova, V. N. 8948
Zahand, J. P. 3132, 7346
Zaher, A. 7092
Zaĭkovskaya, N. Ė. 9861
Zainul Abedin Munshi 564
Zaĭtsev, B. V. 8881
Zaĭtseva-Katarzhina, L. A. 10086
Zaĭtseva, M. 9378
Zaĭtseva, M. I. 4951, 4952, 5615, 8695, 8731
Zaĭtseva, Yu. F. 4368
Zakharenko, Z. P. 3443, 9456
Zaki, A. I. 3240, 7091
Zakirova, R. O. 9438
Zalewski, W. 8311
Zali, A. A. 8740
Zalkind, G. N. 4923
Zalpoor, N. 2948
Zalyubovskaya, N. P. 4956
Zaman, F. U. 5103
Zaman, S. M. H. 5047, 5076
Zambrana, T. 1192, 2792, 2793, 2805, 5154
Zamfirescu, I. 5338
Zamora, M. 6911, 6912
Zamorska, M. 5763
Zana, J. 6088
Žanić, D. 1788
Zankov, Z. 3098, 3099, 3100
Zannone, L. 1191
Zanten, J. V. van 4651
Zapruder, E. G. 1288
Zapryanov, S. 4196
Zarchi, Y. 189
Zarubaĭlo, T. Ya. 4841
Zaslonkin, V. P. 2386
Zatykó, L. 8114
Zavalishina, A. N. 1077
Zawadzka, B. 8154
Zaziąbł, F. 9949
Zazzerini, A. 4713
Zderkiewicz, T. 5598
Zdril'ko, A. F. 1825, 7789, 8652
Zdybek, J. 947
Zech, L. 4769
Zeeuw, D. de 4767
Zeiders, K. E. 3699
Zelenay-Witkowska, A. 6977
Zelenka, S. 8887
Zelenov, A. N. 9304
Zelenova, K. P. 7130
Zelenskiĭ, M. A. 4929
Zelens'kiĭ, M. O. 8545, 9458, 9542
Zelitch, I. 8986, 8987, 8989
Zeller, F. J. 137, 2558, 7730
Zemel', F. M. 1075
Zenina, V. V. 1448, 2984
Zeniščeva, L. 9622, 9629
Zeniščeva, L. S. 5850
Zenischcheva, L. 9629
Zenishcheva, L. 4349, 9622
Zenishcheva, L. S. 5850
Zenisheva, L. S. 5850
Zenkteler, M. 3291
Zenkteler, M. A. 578
Zerneke, F. 4706
Zetea, F. 1869, 8679
Zeven, A. C. 2534, 2540, 6781, 7178, 9382
Zezyukin, A. I. 9783
Zhabenok, L. V. 9779
Zhatov, A. I. 9833
Zhatov, O. G. 9836
Zhdanov, V. V. 9154, 9155
Zhdanovich, V. 1212
Zhebin, D. F. 9614
Zhebrak, Ė. A. 7899
Zhecheva, Zh. 727, 2309, 4669
Zhenzherukhin, A. T. 8647
Zhestyanikova, L. L. 10083
Zhidkova, N. I. 722
Zhidonite, Ya. 5134
Zhigaĭlo, M. I. 9880
Zhiglinskaya, E. A. 2000
Zhila, Ė. D. 9307
Zhirnovnikov, V. P. 7054
Zhirov, E. G. 6700, 8812
Zhitlova, N. 3731, 7013
Zhivotova, L. V. 6149
Zhivotovskiĭ, L. A. 6503, 6504
Zhivotovsky, L. A. 6503, 6504
Zhmurko, L. A. 591, 2194, 9075
Zhogin, A. F. 2550, 5733
Zhuchkova, E. N. 1447
Zhuk, L. I. 7983
Zhukov, O. S. 9151
Zhukova, L. F. 8590
Zhukova, N. N. 1905

Zhukova, N. V. 2351
Zhukova, P. G. 2430, 4810
Zhukova, Z. A. 10160
Zhukovskiĭ, P. 6663
Zhukovskiĭ, P. M. 6623, 9415
Zhukovsky, P. M. 6623
Zhumabekov, E. Zh. 9338
Zhuzhzhalova, T. P. 8957
Ziegler, H. 7534
Zielińska, M. 4070
Zillinski, F. J. 4851
Zillinsky, F. J. 6717, 8572
Zillinzky, F. J. 122
Zima, K. I. 3591
Zimina, T. A. 10166
Zimina, T. K. 6766
Zimm, B. H. 6514
Zimmer, D. E. 557, 2890, 9005
Zimmerman, L. H. 2987, 9915
Zimmerman, R. H. 2999
Zimmermann, C. E. 1352
Zimmermann, F. K. 3259, 7537
Zimmermann, H. 9177
Zimmermann, J. 9177
Zinecker, M. 8039
Zingstra, H. 3729, 7959
Zink, F. W. 4677
Zitelli, G. 1813, 4901, 4909, 4910, 8555
Zitnak, A. 596
Zitter, T. A. 2176
Ziver M., A. 7456
Ziyarov, M. 7741
Zlámal, P. 6470
Zmeshkal, O. 1292
Zmeu, I. 4034
Zmijewska, I. 7772
Zobel, R. W. 781, 1567, 2341, 7433
Zobenko, L. P. 2168
Zobenko, L. P 9923
Zohary, D. 2608, 10173
Zohary, M. 3706
Zohrabian, R. P. 4314, 4969
Zohrabyan, R. P. 4314, 4969
Zokhrabyan, R. P. 4314, 4969
Zoller, V. 1505
Zolotov, V. I. 5830
Zoltán, F. 8161
Zonev, D. 5330
Zonić, I. 978
Zosimovich, V. P. 4474, 6098, 8946
Zotov, V. V. 6297
Zotova, Z. S. 10005
Zoz, N. N. 5731, 7638
Zoz, N. P. 5730
Zozulya, A. L. 4962, 5836
Zscheile, F. P. 8598
Zubaĭdov, U. 8772
Zubenko, V. F. 1314, 5246
Zuber, M. 8503
Zuber, M. S. 234, 1107, 1862, 1867, 1881, 2649, 2660, 6809, 8665, 8717
Zuberi, M. I. 9904, 9905
Żuk, J. 4101, 4102
Zuluaga V., J. 5287, 7155
Żurkowski, W. 398
Zurnadzhi, A. V. 3755
Zutshi, U. 2620, 4106
Zuzens, D. 2527, 6792
Zvetkov, S. 7704
Zvyagina, T. S. 5374
Zweifler, E. 3302
Zwet, T. van der 3016, 3877, 8159
Zych, C. C. 9160, 10008
Zykin, A. G. 429, 431
Zykin, V. A. 9461
Zyl, H. J. Van 6234
Zylka, D. 4578, 4579

AUTHOR INDEX – Additions

Latypov, A.Z. 4235
Łachowska, H. 5502
Łapinski, M. 211, 5933, 7898
Łucka, M. 5405

SUBJECT INDEX

α rays, *Triticum* 7723
Abelmoschus (*see Hibiscus*)
Abies
adaptation, genetic 699
altitude 699
geographical races 698, 1527, 4633
growth period 698
Nectria 1528
photosynthesis 699
pollen 5475
taxonomy 5476
temperature, effect of 699
variation 1527
Acacia, breeding, South Africa 6308
Acalymma, Cucumis, cucumber 2326, 5512
Accessory chromosomes (*see* Chromosomes, accessory)
Acclimatization, *Pisum* 10166
Acer
chemicals, as plant constituents
aminoacids 7351
cyclopropylamino compounds 7351
γ-glutamyl peptides 7351
sugar 5464
chemicals, general effects
ethyl methanesulphonate 2279
growth regulators 2279
kinetin 4109
development and growth 4109
flower 5463
fruit 2282
geographical races 2281–2282
polyploidy 4109
seed 7351
sex 5463
tissue culture 4109
variation 2279
X rays 2279
Aceria
Agropyron × *Triticum* 2607
Mangifera 5395
Saccharum 9844
Achillea
chemicals, as plant constituents, azulene 6177
taxonomy 6177
Achras, polyploidy 4612
Acquired characters, inheritance (*see* Inheritance of acquired characters)
Actinidia, varieties, USA 4550
Actinomyces (*see also Streptomyces*)
Acyrthosiphon, *Trifolium,* red clover 8860
Adaptability
Arachis 6648
Bromus 3679
Cannabis 8025
Cicer 7515
Hordeum 4341, 5873
Oryza 1150, 9668
Solanum, potato 418
Sorghum 8774
Triticum 117, 3402, 7698, 7700
Adaptation, genetic
Abies 699
Avena 1814–1815
Lolium 4406
Adelges, *Picea* 1526
Adoxophyes
Malus 5346
Pyrus 5346
Aecidium, *Hibiscus* 5235
Aegilops
aneuploidy 3524
anther culture 3526
back crossing 3334
chemicals, as plant constituents
acid phosphatase 3522
amylase 6703
chlorophyll 3526
esterase 3522
histone 4219
nucleic acids 143
phenols 4246
protein 2609
chemicals, cytological effects
ethyleneimine 9442
N-nitroso -*N*-ethylurea 9442
Aegilops *contd.*
chemicals, mutagenic effects, ethyl methanesulphonate 7719
chromosomes, aberrations 9442
chromosomes, accessory 2608
crossing over 189
desynapsis 3525
γ rays 7719, 9442
genetics 162
spikelets 2535
spiral habit 5625
genome analysis 4912
genotype × environmental interaction 6780
haploidy 3526
history and evolution 162, 1027, 2609, 3522, 4837, 7681, 7719
hybridization, interspecific 3522, 4912, 8636
meiosis 3524
mutation, induced 7719
plant collections 7681
polyploidy 4912
population genetics 6780
spikelets 2535
sterility and fertility 190
sterility, male 3334
sterility, male, cytoplasmic 9449
substitution lines 1027
taxonomy 2609, 4246, 6781, 7675
variation 9516
Aegilops × ***Secale,*** hybridization, intergeneric 3523, 3523
Aegilops × ***Triticum***
aneuploidy 130, 3430, 3430, 6713
back crossing 258, 6713
chemicals, as plant constituents
enzymes 5768
gliadin 996, 6740
gluten 9474
protein 4215, 7711, 9474
chemicals, cytological effects, colchicine 4228
chemicals, mutagenic effects, ethyl methanesulphonate 7719
chromosomes, accessory 3422
chromosomes, substitution 2547, 2556, 2607, 3430
γ rays 7719
genetics
meiosis 2532
protein 4215
genome analysis 2511
history and evolution 2511, 2556
hybridization, intergeneric 130, 996, 1024, 1027, 2511, 2532, 2546, 2556, 2559, 3422, 3430, 3523, 4215, 4217–4218, 4228, 4840, 4862, 5768, 6713, 6740, 7709, 7719, 9430, 9474
meiosis 130, 2532, 2546, 2559, 2559, 3422, 3430, 4217, 4228, 4840
mutation, induced 7719
pollination 4218
polyploidy 7719
sterility and fertility 1024
Agaricus
breeding, German Federal Republic 4092
haploidy 2404
heterocaryosis 2404
heterothallism 858, 9203
meiosis 9314
nucleus, number 5600
nucleus, size 5600
varieties, Rumania 6492
Agave
Phytophthora, physiological races 1301
taxonomy 486
Aging of seeds
Allium, onion 2308
Triticum 4226
Zea, sweet corn 9613
Agrobacterium
immunology 1977
leguminous forage crops, physiological races 1977
Nicotiana 8064
Pisum, physiological races 4082
Prunus, almond 8129
taxonomy 2788
Agrobacterium *contd.*
Vitis 8228
Agronomy
Daucus 724
Gossypium 1263, 8371
Lycopersicon 10120
Nicotiana 8970
Oryza 4391
Triticum 1791, 2587
Vitis 4628
Agronomyza, Phaseolus 7469
Agropyron
chemicals, as plant constituents
amylase 150
nucleic acids 3693
phenols 8831
chromosomes, morphology 8831
chromosomes, number 5945
chromosomes, substitution 3693
development and growth 9711
diallel analysis 8830
genetics, colour 1971
genome analysis 1188, 5956
history and evolution 1188, 8831
meiosis 3693
polyploidy 1188, 8831
quality, for nutrition 8830
stem 8830
sterility, male, cytoplasmic 8829
taxonomy 2781, 5954, 7675, 8831
varieties, USA 2780
variety trials, USA 2784
Agropyron × ***Elymus***
genome analysis 5956
hybridization, intergeneric 376, 5956
meiosis 376
Agropyron × ***Triticum***
Aceria 2607
chromosomes, accessory 4845
chromosomes, substitution 4411
cold, effect of 8607
cold resistance 7711
cold resistance, technique 8607
Erysiphe 987, 4257
Fusarium 7711
genome analysis 2511
growth period 7711
height 987, 3437
heterosis 3437
history and evolution 274
hybridization, intergeneric 132, 969, 986–987, 1812, 2511, 2547, 2607, 3428, 3430, 3437–3438, 3692, 4257, 4411, 4845, 5667, 5718, 5724, 6709, 7711, 8436, 8607, 8829, 9422, 9433
inflorescence, size 3437
lodging 7711
meiosis 132, 2547, 3430, 6709
nucleolus 6709
polyploidy 6709
Puccinia 987, 1812, 2547, 3430, 4411, 7711, 8436
quality, for milling and baking 7711, 9433
sterility and fertility 3692
translocation 8436
Ustilago 7711
Agrostis
chemicals, general effects
copper 367
zinc 366
flowering 6941
mixtures of crops or genotypes 359
polyploidy 6941
selection, natural 367
taxonomy 7905, 9697
variation 359
varieties, Netherlands 7632
varieties, classification, technique 9686
variety trials, UK 5125
Alfalfa (*see Medicago*)
Alleles (*see* Genetics)
Alleles, multiple (*see* Multiple alleles)
Allium, taxonomy 9214
Allium, **chives**
chromosomes, morphology 4661
chromosomes, number 730
taxonomy 1543

Allium, **garlic**
breeding, USSR 5493
chromosomes, morphology 2311, 4661
chromosomes, number 7391
Ditylenchus 6357
history and evolution 2311
meiosis 3149, 7391
sterility, male 3149
varieties, Arab Republic of Egypt 7390
variety trials, USSR 7389
vivipary 7391
Allium, **leek**
crossing over 3963
meiosis 3963
nucleolus 4105
pollen, technique 8269
polyploidy 3963
sterility, male 732, 3963
varieties, Denmark 3142
variety trials, Belgium 4666
Allium, **minor species**
asynapsis 9217
chemicals, as plant constituents, nucleic acids 3150
chemicals, cytological effects
colchicine 7557
IAA 7557
kinetin 7557
nitrogen mustard 890
chromosomes, aberrations 884, 890
chromosomes, morphology 1542, 3962, 6356
chromosomes, number 1542, 3962
crossing over 9217
endomitosis 731, 7557
Erwinia 4665
genetics, leaf, colour 729
haploidy 6342
laser beams 884
leaf, colour 729
meiosis 35, 3149
nucleus 731
pollen, size 8270
polyploidy 1542, 6356, 9217
sterility, male 3149
taxonomy 3150, 3964
variety trials, Indonesia 4665
X rays 884
Allium, **onion** 4660
aging of seeds 2308
bolting 8426
Botrytis 4664, 10080–10081
breeding
Bulgaria 2309
USSR 6350
cell division 25, 27, 2433, 2435, 2445, 2447–2448, 2450, 3280, 4098, 7550, 7552, 7558, 9337
chemicals, as plant constituents
nucleic acids 3273
protein 10077
sulphur 2306
chemicals, cytological effects
aminoacids 38
chlorpropham 7552
colchicine 38, 2433, 7550
cycloheximide 2445
3′-deoxyadenosine 27
digitonin 7553
esculin 7553
hexachlorocyclohexane 38
kinetin 4662, 9337
mercury 4098
parachloromercuribenzoate 2435
phytohemagglutinin 7550
sulphanilamide 4660
thallium 880
tobacco smoke 3280
triethanolamine 3286
veratrine 25
chemicals, fertility and sex, effects, gibberellins 10079
chemicals, general effects, gibberellins 2310
chemicals, mutagenic effects, propanil 5622
chromosomes, aberrations 880, 2308, 3280, 3286, 4662, 5622
chromosomes, morphology 4661
chromosomes, morphology, technique 4104
colour 6352, 7388, 10081
flowering 2310
Allium, **onion** *contd.*
glass and plastic, cultivation under 3147
growth period 727, 8426
harvesting, mechanical 10071
hybrid varieties 4663, 8267, 10078
hybridization 8268, 10077
inbreeding 2306
irrigation 727
magnetism, effect of 7558
meiosis 4098, 7561
molecular genetics 3273
multiple genes 6352
Musca 7386
nucleolus 27, 2445
nucleus 2447
nucleus, size 7550
Peronospora 5492, 6351
photoperiodism 3146, 9215
photosynthesis 9215
plant introduction 8426
pollination 4663, 7386
polyploidy 38
quality, for drying 3148, 6353, 7387
quality, for pickling and salting 6354
quality, for storage 7387, 10071
Sclerotinia 7388, 9216
seed production 6351
sowing and planting date 9215
sterility, male 2306, 4663, 7385, 8268, 9212, 10078
sterility, male, cytoplasmic 717, 728, 2309, 10178
sterility, self 3147
temperature, effect of 2448, 2450
Urocystis 6355
varieties
Bulgaria 8265
Czechoslovakia 4659, 5491
Rumania 8266
South Africa 3961
Sweden 8495
USA 2307
USSR 726, 6340
variety trials
Poland 8267
USA 5490
Allium, **shallot,** variety trials, Poland 1541
Allopolyploidy (*see* Polyploidy)
Almond (*see Prunus,* almond)
Alocasia, polyploidy 6108
Aloe
chemicals, cytological effects, maleic hydrazide 6064
chemicals, fertility and sex, effects, maleic hydrazide 6064
chromosomes, aberrations 6064
epidermis 487
sterility, male 6064
taxonomy 487, 3774
Alopecurus
chromosomes, number 2785
quality, for nutrition 9715
taxonomy 2785
Alsike clover (*see Trifolium,* Alsike clover)
Alternaria
Beta, sugar beet 2094
Cichorium, chicory 6330
Daucus 4658
Gossypium 468–469
Lycopersicon 6422, 10124
Malus 5358
physiological races 8149
Nicotiana 2938–2939, 6578, 7145
Pyrus 2201, 5364, 9092
Secale 9537
Sesamum 553, 2978
Solanum, potato 2862, 7028
***Alternaria,* technique**
Nicotiana 7146
Solanum, potato 439
Altitude
Abies 699
Betula 3127
Eucalyptus 3943
Lolium 2769
Oryza 5033
Pinus 3136
Pyrus 3873
Rubus, raspberry 7294
Triticum 7733
Amaranthus
aneuploidy 1586
development, abnormal 800
hybridization, interspecific 800
photoperiodism 5541
sterility and fertility 800
Amaurosoma, Phleum 1958
Amelanchier
hybridization, interspecific 4614
taxonomy 4614
Ammi, polyembryony and twinning, technique 1389
Amphorophora
Rubus, raspberry 4599, 6183, 6253, 10002
physiological races 7294
Amrasca, Gossypium 6051
***Amygdalus,* almond** (*see Prunus,* almond)
***Amygdalus,* nectarine** (*see Prunus,* nectarine)
***Amygdalus,* peach** (*see Prunus,* peach)
Anacardium
chemicals, as plant constituents, protein 2269
development, abnormal 10054
flower 10054
sterility and fertility 10054
varieties, India 672
Ananas
Erwinia 4611
varieties
Australia 3320
Puerto Rico 7307
Anatomy
Beta, sugar beet 8045
crop plants 66
Digitaria 374
Gossypium 467
Lycopersicon 1578
Medicago 2810
Solanum, potato 2851
Triticum 1008, 1794, 1806, 7741
Zea, maize 1096
Andrecium (*see also* Anther)
cereals 8528
Lycopersicon 9248
Rubus 9150
Secale × *Triticum* 6716
Solanum, egg plant 9260
Sorghum 9657
Triticum 4875, 5746
Vitis 2255, 3105
Zea, maize 8528, 8704
Andrecium, number of parts
Musa 8201
Prunus, apricot 7260
Prunus, cherry 7260
Prunus, peach 7260
Prunus, plum 7260
Andrecium, shape, *Vitis* 3103
Androgenesis
Tripsacum × *Zea,* maize 8683
Zea, maize 8707
Andropogon, quality, for nutrition 7904
Anethum
chemicals, as plant constituents
oil, essential 8368
vitamins 8368
quality, of edible product 8368
varieties, Sweden 8498
Aneuploidy 5610, 7555
Aegilops 3524
Aegilops × *Triticum* 130, 3430, 6713
Amaranthus 1586
Beta, sugar beet 8043, 8947, 9860, 9862
Brassica, cabbage 4669
Brassica, rape 8091
Brassica, turnip 9753
Cajanus 5593
Caragana 9189
Corchorus 2891
Dactylis 6948
Digitaria 1970
Gossypium 2047, 3758
Hordeum 271, 2692, 2694, 3621, 5003, 5860, 6549, 7837, 9376, 9624
Humulus 8997
Ischaemum 5140
Lolium 2768, 3681, 6608, 6953
Lycopersicon 7436
Nicotiana 2926, 3810–3811, 7137, 8059
Pinus 10061
Pisum 7234, 9937

Aneuploidy *contd.*
Prunus, apricot × *Prunus,* plum 5372
Psidium 2231
Secale 3541
Secale × *Triticum* 984, 1811, 2548, 4216, 4844, 5720, 8559, 8584, 9417–9419, 9425
Solanum 26
Solanum, potato 2846
Themeda 5958
Trigonella 8878
Triticum 140–142, 1024, 1775, 2557, 2559, 3425, 3452, 4860, 6741, 7727, 7731
Zea, maize 1852, 5816, 7810
Angelica (*see Archangelica*)
***Anguina,* Triticum** 2605, 7771
Annual habit, leguminous forage crops 2787
Anther
Sorghum 299
Triticum 5710
Zea, maize 6826
Anther, colour, *Beta,* sugar beet 9873
Anther culture 2441, 7563, 8410, 9933
Aegilops 3526
Arabidopsis 3287
Asparagus 9218
Atropa 578
Brassica, cauliflower 8434
crop plants 2456, 7554
Datura 39, 3289, 7554
Festuca × *Lolium* 8438
Hordeum 2699
Lycopersicon 785
Nicotiana 527, 1336, 2105, 2111, 2113, 2438, 5274, 6116, 6118, 7229, 8062, 8969, 8984, 9890
Oryza 5924, 8785
Solanum 26, 6528
Solanum, potato 39, 2018
Triticum 3344
Zea, maize 6827
Anther culture, technique
Datura 4112
Solanum 3291
Anthesis (*see* Flowering)
Anthonomus
Capsicum 1386
Gossypium 472
Anthoxanthum
selection, natural 379
toxic soils 379
Anuraphis, Malus 9082
Aphanomyces
Pisum 2391
physiological races 841, 7511
Aphelenchoides
Fragaria 2245
Oryza 1946
Aphis
Cucumis, melon 4681, 7410
Gossypium 3767
Phaseolus 7468
Ribes, black currant 3903
Solanum, egg plant 9261
Apion, Corchorus 6062
Apis
Brassica, Brussels sprouts 3971
crop plants 69
Gossypium 2065
Malus 8153
Medicago 3703, 4412
Vigna 7476
Apium
Centrospora 6377
Cercospora 10093
flowering 8286
growth period 8286
history and evolution 3980
mutation 8286
quality, for conserving 9228
quality, for storage 3162
root 9228
taxonomy 3980
varieties, Yugoslavia 9228
Apium* × *Petroselinum
chemicals, as plant constituents
oil, essential 8370
pectin 3162
hybridization, intergeneric 4090, 8370
quality, for storage 3162
Aplanobacter, Populus 684, 3123
Apluda
chromosomes, morphology 8832
polyploidy 8832
Apomixis 2457, 8412–8413
Begonia 2457
Chondrilla 9028
crop plants 9378
Cucumis, cucumber 760
Eragrostis 9710
Ficus 9144
grasses 6940
Malus 9069
Pennisetum 286
Pisum 9307
Poa 2761, 4404, 6570, 8812
Secale 7785
Solanum, potato 2850
Sorghum 8771
Taraxacum 5542, 9028, 9028
Themeda 5958

Tripsacum × *Zea,* maize 8683

Triticum 8564, 8567
Zea, maize 8668, 8708
Apple (*see Malus*)
Apricot (*see Prunus,* apricot)
Arabidopsis
anther culture 3287
chemicals, as plant constituents, chlorophyll 9331
chemicals, general effects, nucleic acids 873
chemicals, mutagenic effects, miscellaneous 3277
chimeras 1669
development and growth 1669
genetics, chlorophyll 9331
haploidy 3287
molecular genetics 873
mutation 2428
mutation, induced 1669, 3277
tissue culture 3344
Arachis
adaptability 6648
Aspergillus 1379, 4527, 7193
Aspergillus, technique 9921
Belonolaimus 5324
breeding, Argentina 2152, 2154
Cercospora 2494
chemicals, as nutrients
iron 3846
miscellaneous 7183
chemicals, as plant constituents
allantoinase 5322
chlorophyll 563
enzymes 7189
flavonoids 4526
methionine 1376
oil, fatty 567–568, 1377, 3295, 3845, 4525, 6166, 9013
oil, fatty, technique 2974
peroxidase 7187
protein 3845, 7189, 8110
pyridoxine 9919
stachyose 2990
thiamine 9919
chemicals, mutagenic effects
diethyl sulphate 3844
ethyl methanesulphonate 3844
competition 5323
Corticium 7194
density of stand 565
development and growth 4524, 9918
dormancy 7185–7186
embryo 4524
flowering 2166
Frankliniella 1380–1381
γ rays 2989
genetics
dormancy 7186
Puccinia 2991
seed, colour 1375
genome analysis 8109
genotype × environmental interaction 4521
germination 7191
growth period 5654, 9919
habit 2166–2167, 4523, 7183, 7190, 9918
Arachis *contd.*
heat and drought resistance 5654, 7190–7191
heritability 565, 7183
history and evolution 1378
hybridization, interspecific 1378, 7184, 8109
insects 570
Laphygma 570
leaf 4524
Meloidogyne 5324
mutation 563, 4522
mutation, induced 2988–2989
Mycosphaerella 2167, 5654, 7192
pathology 8520
photosynthesis 563, 7188
plant collections 2157
polyploidy 7184
Pseudomonas 2494
physiological races 3847
Puccinia 2991
physiological races 569
Pythium 7194
quality, for nutrition 2990
quality, for processing 9920
quality, of edible product 9920
Rhizobium 9014
seed 4527
seed, colour 1375
sowing and planting date 3295
sterility and fertility 2166, 7184
taxonomy 1378, 4526
variation 566
varieties
India 2165
USA 1373–1374, 7182
varieties, classification 2148, 6165
variety trials 1692
Argentina 2147, 2149–2151, 2153, 2155–2156, 2158–2161
Malagasy Republic 2164
Philippines 2163
Portuguese East Africa 2162, 7181, 9916
viruses 1379, 6167, 9015
X rays 2152, 2988–2989
yield components 564–566, 6164, 7183, 9917

Arceuthobium, Tsuga 3951
Archangelica, taxonomy 9926
Areca
breeding, India 9145
varieties, India 9145
Arrhenatherum
breeding, technique 8438
Puccinia 8438
Artichoke (*see Cynara,* globe artichoke; *Helianthus,* Jerusalem artichoke)
Artocarpus, chromosomes, number 10022
Ascochyta (*see also Mycosphaerella*)
cereals 8534
Cicer 4086, 7516
physiological races 7517
Lathyrus 1228
Medicago 8811, 8851
Onobrychis 7953
Pisum 1636, 7234, 7238
Vicia, broad bean 8321
Vicia, vetch 8864
Ash (*see Fraxinus*)
Asimina
hybridization, interspecific 8238
sterility and fertility 8238
Asparagus
anther culture 9218
density of stand 4151
haploidy 7233, 9936
history and evolution 1544
hybridization, interspecific 7233
polyembryony and twinning 7233, 9936
polyploidy 7233
sex 9218
tissue culture 7233, 9218
variety trials
Canada 4150
Finland 5494
Aspergillus
Arachis 1379, 4527, 7193
Phaseolus 4044
Zea, maize 1876
***Aspergillus,* technique,** *Arachis* 9921
Asphondylia, Cyamopsis 2005

***Aspidiotus,* *Prunus,* plum 8170**
Astragalus
inbreeding 8873
varieties, Canada 3718
Asymmetry
Fagopyrum 8801
Oryza 87
Triticum 87
Asynapsis
Allium, minor species 9217
Avena 7778
Citrullus 6384
Paspalum 1969
Secale × *Triticum* 139
Triticum 4861
Zea, maize 5824
Asyndesis (*see* Asynapsis)
***Atherigona,* *Sorghum* 5032, 8776, 8778–8781, 9666**
Atriplex
chemicals, as plant constituents 4720
genetics, photosynthetic enzymes 4720
photosynthesis 4720

Atropa
anther culture 578
chemicals, as plant constituents, alkaloids 7205
flowering 5339
haploidy 578
polyploidy 9931
Aubergine (*see Solanum,* egg plant)
Aulacophora
Citrullus 1552
Cucumis, melon 1552
Lagenaria 1552
Autopolyploidy (*see* Polyploidy)
Avena
adaptation, genetic 1814–1815
asynapsis 7778
breeding 4913
Canada 191, 6582
Poland 7774
Sweden 3326, 4118
UK 6568
chemicals, as plant constituents
aminoacids 1046
enzymes 196, 6784
esterase 2613, 2616
flavonoids 2613, 8638
lysine 7666
miscellaneous 1816
nucleic acids 199, 1048, 2618
peroxidase 5790
phenols 5794
protein 198, 1819, 2613, 3530, 5795, 7666, 8640, 9522, 9524
chemicals, general effects
gibberellins 202
methyl-2-chloro-3-(4-chlorophenyl) propionate 8641
chemicals, mutagenic effects
dimethyl sulphate 7776
isopropyl methanesulphonate 2612, 5002
N-nitroso-*N*-methylurea 5791, 7776
propyl methanesulphonate 2612, 5002
chloroplasts 8638
climate 2614
clines 4266
Cochliobolus 6674, 8511
cold, effect of 6670
cold resistance 9526
combining ability 9522
competition 1050, 9525
density of stand 1752
development and growth 1816, 6783, 6786
Ditylenchus 6548, 6568
dormancy 202
ecotypes 6785
environment 197
flower 2615
Fusarium 5796
γ rays 1047, 6786
genetics
hairs 8639
Heterodera 2619
meiosis 4916, 7779
peroxidase 5790
protein 1819, 9522, 9524
Puccinia 205, 3532, 6788–6789, 8421, 9527–9528

Avena* *contd.
genetics *contd.*
seed 9520
seed, colour 6782
yield components 201
genome analysis 1048, 2613, 2616
genotype × environmental interaction 1814–1815, 1817
germination 6670
growth period 204, 1752, 9518
hairs 8639
height 1047
heritability 197, 7775, 8637
Heterodera 2619, 4781, 9356
heterosis 9521–9522
history and evolution 2613–2615, 5795, 7779
hybridization, interspecific 198, 202, 1046, 1819, 3532, 4268, 4916–4917, 5793, 6548, 8639–8640, 9522
Hylemyia 4189
inflorescence 8637
leaf 8639
leaf, size 1752
Leptosphaeria 5796, 9517
Leptosphaeria, technique 5797
lodging 9517–9518
Macrosiphum 8536
matrocliny 9523
meiosis 4916–4917, 7778–7779
Meloidogyne 206
mixtures of crops or genotypes, technique 9525
mutation, induced 1047, 2611, 4118, 5791–5792, 7776–7777
neutrons 2611, 9389
nucleus 199
Ophiobolus 5796
Oscinella 9529
photoperiodism 3529, 4267, 5793
photosynthesis 9523
plant collections 192–193, 4913
polymorphism 1814, 2614
polyploidy 199, 1048, 2613, 2616, 3532, 4916, 5794–5795, 7779
population genetics 196, 1814
protoplast fusion 5666
Puccinia 203–204, 942, 1821, 2618, 3391, 4268, 6788–6789, 6791, 9518, 9528
physiological races 205, 1822, 3532, 6790, 8421, 8642
Pucinia 9527
Pyrenophora, physiological races 6787
quality, for nutrition 1049, 1818
root 6674
seed 2611, 4267, 9520
seed, colour 6782
selection, natural 9526
shedding 9518
sowing and planting date 4267, 6670
spikelets 4267
stem 6783
sterility and fertility 1047
succession, crop 2512
taxonomy 1048, 1820, 3531, 4917
temperature, effect of 1817
Ustilago 203, 9518
physiological races 2617
variation 196, 4266
varieties
Australia 195
Austria 3301, 3312, 7636
Canada 3528
German Federal Republic 7636
Japan 5789
New Zealand 194
Sweden 3326
UK 4915
USA 2610, 3374, 6665, 8456
varieties, classification 3312, 6783
variety trials
Canada 9387
Ethiopia 1687
Hungary 4914
Italy 7597
Poland 7774
Rumania 9519
Switzerland 6664, 9386
UK 1045, 4183, 4820–4821
Ukrainian SSR 3527
USA 5788, 7671–7672
USSR 8489
vernalization 3529

Avena* *contd.
X rays 2611
yield components 197, 200–201, 1050, 7775, 7777, 9521
Avocado (*see Persea*)
Awns 5955
Hordeum 1903, 6878
Oryza 8786
Triticum 977, 2573, 4234, 6731, 8631
B chromosomes (*see* Chromosomes, accessory)
β rays
Brassica, rape 5619
Hordeum 5670
Oryza 5102
Pinus 1522
Pisum 5670
Triticum 2551, 5670
Vitis 3921
Bacillus
Prunus, apricot 9967
Prunus, cherry 9967
Prunus, peach 9967
Prunus, plum 9967
Back crossing 2407
Aegilops 3334
Aegilops × *Triticum* 258, 6713
Beta, sugar beet 5252, 8040
Cannabis 8017
Gossypium 1273
Hordeum 5859, 8750
Lycopersicon 779, 6426
Medicago 2798
Nicotiana 8976, 9892
Zea, maize 213, 3591
Bacteria
crop plants 939
Eleusine 7676
Manihot 2912
Nicotiana 532
Oryza 7676
Phaseolus 4041, 6442
Sorghum 3644
Zea, maize 8721
Bacteriophages
Hordeum 3271
Rhizobium 1978
Bahia grass (*see Paspalum*)
Baking quality (*see* Quality, for milling and baking)
***Bambusa,* chromosomes, number 4168**
Banana (*see Musa*)
Bark
Corchorus 6062
Salix 9040
Bark, colour, *Populus* 3940
Barley (*see Hordeum*)
***Basella,* polyploidy 5543**
Basil (*see Ocimum*)
Bean (*see Phaseolus*; *Vicia,* broad bean)
Beech (*see Fagus*)
Beet, sugar (*see Beta,* sugar beet)
Beetroot (*see Beta,* beetroot)
Begonia
apomixis 2457
matrocliny 2457
Belladonna (*see Atropa*)
***Belonolaimus,* *Arachis* 5324**
***Bemisia,* *Solanum,* potato 3750**
Benincasa
environment 5513
sex 5513
Bent (*see Agrostis*)
Bermuda grass (*see Cynodon*)
Beta
breeding, Hungary 6084
Cercospora 2089
chemicals, as plant constituents
miscellaneous 9847
nucleic acids 7109
sugar 5258
chemicals, cytological effects, colchicine 8952
chloroplasts 7109
chromosomes, number 7111
chromosomes, number, technique 6081
cytoplasmic inheritance 7109
γ rays 7110
germination 6090
history and evolution 7109
hybridization 1320
hybridization, interspecific 6097, 7109
monogerm seed balls 6085, 6090

Beta *contd.*
pathology 6083
pollen 500
polyploidy 6079, 6082–6085, 6090, 6097, 7110
polyploidy, technique 6081, 8952
quality, of edible product 4483, 6089, 8047
seed 6090
sterility and fertility 6097
sugar beet
development and growth 9866
polyploidy 9866
varieties, Austria 7636
X rays 7110
***Beta*, beetroot**
bolting 4127
genetics, sterility, male 3143
monogerm seed balls 4127, 4654
quality, for canning 719
sterility, male 3143
varieties, Sweden 2297
variety trials
Rumania 7379
UK 6337
***Beta*, beetroot × *Beta*, sugar beet,** hybridization 4654
***Beta*, mangel**
breeding
Poland 7955
White Russian SSR 5994
heterosis 2832
inbreeding 2832
monogerm seed balls 3304
polyploidy 3304, 4160, 5994, 6087, 9846
varieties
Australia 6938
Austria 3304
Denmark 4160
variety trials
Bulgaria 5178, 5995
Denmark 3720
Hungary 6087, 6995
Rumania 7956
***Beta*, mangel × *Beta*, sugar beet,** hybridization 4471, 4474, 6098

***Beta*, sugar beet**
Alternaria 2094
anatomy 8045
aneuploidy 8043, 8947, 9860, 9862
anther, colour 9873
back crossing 5252, 8040
bolting 1324, 5256, 9871
breeding
Czechoslovakia 1317
German Democratic Republic 5246, 8039
Hungary 9852
Irish Republic 501
Poland 7955
USA 504, 3779
USSR 1314–1316, 8038, 8046, 9849, 9851
White Russian SSR 3778
breeding, technique 5245
Cercospora 513, 2089, 2095, 3795, 4483, 9854

chemicals, as nutrients
miscellaneous 3784, 6091, 9869
nitrogen 9881
chemicals, as plant constituents
acids 6102
aminoacids 3794, 3799, 4479, 4486, 7123
calcium 9883
magnesium 9883
miscellaneous 3780, 6089, 9850, 9862, 9881–9882
potassium 9883
sodium 9883

***Beta*, sugar beet** *contd.*
chemicals, as plant constituents *contd.*
sugar 3782, 3794, 3799, 4479, 6091, 7121, 8047, 9848, 9865, 9884, 9887
chemicals, fertility and sex, effects, 2,3-dichloroisobutyrate, sodium 2907, 6086
chemicals, general effects
calcium chloride 509
sodium chloride 509
chimeras 9873
chromosome aberrations 9864
climate 4476, 8957
cold, effect of 6104
combining ability 2906, 3796, 5251, 9856
competition 512, 4816, 7109
Corticium 3795, 7125, 8964, 9854
development, abnormal 3791
development and growth 9872
diallel analysis 5251
embryo sac 5252
embryology 9868
endomitosis 3786, 7109
environment 4483
Erysiphe 6106, 9885
flowering 5256
γ rays 3791, 5255, 6105
genetics
Cercospora 3795
Corticium 3795
monogerm seed balls 8962, 9879
Peronospora 2094
Rhizoctonia 8964
sterility, female 5262
sterility, male 3792, 6105, 8960, 9875
viruses 2094, 3795
germination 509, 5261, 6104, 8958, 9848, 9870–9871
grafting 511
growth period 9871
heat, effect of 7124
height 5256
heritability 5249–5250, 5259, 9863
Heterodera 4486, 4817
heterosis 2091, 3786, 3796, 4473, 6099, 7109
hybrid varieties 503, 7112, 8950
hybridization, interspecific 5252, 7111, 7118, 9857–9858, 9872
inbreeding 502
insects 3797
irrigation 6092, 7114
leaf 7122, 9872
leaf, anatomy 3789
mechanical injury 4482
meiosis 7118–7119, 9861, 9864
mitochondria 2091, 4473
monogerm seed balls 501, 503, 1320, 3781, 5245, 6085, 6095, 6101, 6103, 7112, 8040, 8949, 8951, 8954, 8962, 9848, 9871, 9877, 9879–9880
multiple genes 4483
mutation, induced 6105, 9859
Myzus 3797
nematodes 3796
pathology 8519, 8963
patrocliny 9886
Peronospora 2094, 9855, 9885–9886
Phoma 7124, 8965
photosynthesis 1321, 5258, 9869
physiology 3788
Pleospora 9887
pollen, size 9873
pollination 5257, 5260
polyploidy 1321–1322, 3781, 3785–3791, 5253, 5256, 6079, 6082, 6085–6089, 6091–6092, 6096, 6099–6100, 6104, 7109, 7112, 7120, 7122, 8043–8045, 8944, 8948–8951, 8953–8956, 8958, 9848, 9858, 9861, 9863–9864, 9867–9869, 9885
polyploidy, technique 5254
quality, for storage 4479–4480, 4482, 9880
quality, of edible product 4481
recombination 3790
respiration 4473
root 8044
root, anatomy 7121
root, shape 5259
root, weight 4486, 4816, 9865, 9884
seed, size 3793
seedlings, colour 9876

***Beta*, sugar beet** *contd.*
selection, artificial 4472, 4481, 9863
selection, artificial, technique 7113
sex 510
sterility and fertility 9858
sterility, female 510, 5262
sterility, male 2907, 3781, 3792, 6086, 6105, 7112, 7119, 8046, 8957–8958, 8961, 9874
sterility, male, cytoplasmic 500, 511, 1322, 4477–4478, 5255, 6096, 8959–8960, 9873, 9875, 9877–9878
sterility, self 502, 8961
stomata 2095
synthetic varieties 512, 2090
temperature, effect of 509, 8965
variation 4816
varieties
Austria 508
Czechoslovakia 6095
Kirgiz SSR 8945
Netherlands 1723
UK 9855
USA 9854
USSR 8042
Yugoslavia 3785
variety trials 7116
Belgium 2905, 7117
Canada 506
Czechoslovakia 8041
France 6093, 9853
Hungary 6087–6088
Kirgiz SSR 507
Rumania 7114–7115
Spain 919, 7568
Switzerland 3783
UK 1318, 5248
USA 505, 6094
USSR 5247, 8944
viruses 513, 1324, 2094, 2096, 3795, 3798–3799, 5993, 8048
physiological races 1323, 4487
viruses, technique 8049
X rays 3791, 9859
yield components 2092–2093, 4475–4476, 7122, 9870
***Beta*, sugar beet × *Beta*, beetroot,** hybridization 4654
***Beta*, sugar beet × *Beta*, mangel,** hybridization 4471, 4474, 6098, 8946
Betula
altitude 3127
chemicals, as plant constituents
aminoacids 3942
miscellaneous 1507, 7657
protein 5460
chromosomes, number 1506
development and growth 3126
γ rays 4636
habit 10058
height 7338
hybridization, interspecific 673, 1506, 3124–3126, 3941, 5461
leaf 686
mutation, induced 10058
photoperiodism 3127
pollen 5460
quality, of timber 5461, 10058
seed production 7338
selection, artificial 7338
sterility and fertility 4636
taxonomy 686, 1507, 3124, 3128, 7657
temperature, effect of 3127
variation 686, 5460
Biennial habit, leguminous forage crops 2787
Bilberry (*see Vaccinium*)
Biochemistry (*see* Chemicals, as plant constituents)
Birch (*see Betula*)
Birds
Sorghum 5903–5904
Triticum 4198
Birdsfoot trefoil (*see Lotus*)
Bitter cress (*see Cardamine*)
Black currant (*see Ribes,* black currant)
Black locust (*see Robinia*)
Blackberry (*see Rubus,* blackberry)
Blueberry (*see Vaccinium*)
Bluegrass (*see Poa*)
Bluestem (*see Andropogon*)
Boehmeria, varieties, India 1256

Bolting
Allium, onion 8426
Beta, beetroot 4127
Beta, sugar beet 1324, 5256, 9871
Spinacia 4129
Bombus,* *Vigna 7476
Botany
crop plants 10177
Fragaria 1449
Lolium 8822
Botryosphaeria,* *Vaccinium 1439
Botrytis (*see also Sclerotinia*)
Allium, onion 4664, 10080–10081
Bouteloua, variety trials, USA 2784
Brachiaria, variety trials, Brazil 9712
Brachycaudus,* *Prunus, plum 9113
Bracts, *Gossypium* 2047
Bramble (*see Rubus,* blackberry)
Branching (*see* Habit)
Brassica
breeding, UK 733, 1545, 6572
chemicals, as plant constituents
chlorophyll 2833
flavonols 8271
glucosinolates 6359
oxazolidinethione 6358
protein 1547, 10084
thioglucosidase 1546
chemicals, cytological effects
potassium 4667
sodium 4667
chloroplasts 4668
cold, effect of 3965
dominance 9221
flowering 3965, 8272
genetics
chlorophyll 2833
meiosis 3151
sterility and fertility 9220–9221
gynecium 8272
hybridization, interspecific 1547, 2006, 6359, 6572, 9047, 10082
Hylemyia 2302
leaf, anatomy 10083
linkage 9047
meiosis 3151
modifiers 2833
photosynthesis 4668
Plasmodiophora, physiological races 3152, 3966, 6360–6361, 7394
pollination, technique 9219
polyploidy 2006, 3151, 6572
protoplast fusion 4667
stem, anatomy 10083
sterility and fertility 6572, 9047, 9220–9221
taxonomy 1547
varieties, Australia 6938
variety trials
Nigeria 6615
Rumania 8274
***Brassica,* Brussels sprouts**
Apis 3971
Brevicoryne 9206
physiological races 3973
chemicals, general effects, ethyl 2-(3-chlorophenylcarbamoyloxy)propionate 6371
density of stand 9049
genetics, sterility and fertility 7393
heat, effect of 9206
hybrid varieties 739, 2313
hybridization 3970
multiple alleles 9206
Mycosphaerella 6654, 7626
Plasmodiophora 7395
pollination 735, 3158, 3971
quality, for freezing 2314
sterility and fertility 3970–3971, 7393
sterility, self 735, 739, 3158, 9049, 9206
synthetic varieties 3972
varieties, UK 4672
variety trials
Belgium 2313, 6370
Netherlands 4671
Poland 2314
***Brassica,* cabbage**
4669
aneuploidy 4669
chemicals, as plant constituents
aminoacids 6368
γ-aminobutyric acid 8278
glutamic decarboxylase 8278
***Brassica,* cabbage** *contd.*
chemicals, as plant constituents *contd.*
protein 4173, 6365
corolla 4669
desynapsis 7397
endosperm 8278
Fusarium 10086
γ rays 4669
genetics, sterility and fertility 7393
growth period 8276
heterosis 8276
hybrid varieties 3142, 3153, 8277
immunology 6365
inbreeding, technique 8277
leaf 4669
light, effect of 3155
mechanical injury 3154
meiosis 7397
multiple alleles 6366
multiple genes 3154, 3157
mutation 7397
mutation, induced 4669
Plasmodiophora 6368, 7395, 8279
physiological races 3967
pollination 735
pollination, technique 8277
polyploidy 8278
Sclerotinia 4173
stem, size 8276
sterility and fertility 4669, 6365, 7393, 7397, 9222
sterility, self 735, 6364, 6366, 8277
temperature, effect of 3155
Trichoplusia 6369
Tylenchorhynchus 8273
varieties, Sweden 8496
variety trials
Azerbaijan SSR 8275
Czechoslovakia 6362
UK 6363
USA 7396, 10085
Xanthomonas 2312, 3155, 3157, 6367
***Brassica,* cabbage × *Brassica,* rape**
γ rays 2128
hybridization, interspecific 2128
mutation, induced 2128
polyploidy 2128
***Brassica,* cauliflower**
anther culture 8434
density of stand 737, 9048
growth period 1548–1549, 4128, 5495
harvesting, mechanical 5495
inbreeding 8434
Plasmodiophora 7395
quality, for freezing 5496
sowing and planting date 1548
sterility and fertility 8434
tissue culture 3969
Tylenchorhynchus 8273
varieties, Sweden 2299
variety trials
Antilles 9223
Azerbaijan SSR 7398
Belgium 4670
Canada 5495
UK 1549, 3968
Venezuela 3156
***Brassica,* kale**
chemicals, as plant constituents
glucosinolates 5498
miscellaneous 10087
chimeras 6372
polyploidy 6372
tissue culture 6372
variety trials, UK 10069
***Brassica,* kale × *Brassica,* rape**
γ rays 2128
hybridization, interspecific 2128
mutation, induced 2128
polyploidy 2128
Brassica,* kale × *Raphanus
hybridization, intergeneric 9224
Plasmodiophora 9224
***Brassica,* kohl rabi**
chemicals, as plant constituents
ascorbic acid 6996
catalase 6996
sugar 6996
development and growth 7958
genetics, sterility and fertility 7393, 8424
polyploidy 7958
respiration 6996
sterility and fertility 7393, 8424
***Brassica,* kohl rabi** *contd.*
varieties, Hungary 1229
variety trials, Ukrainian SSR 7957
***Brassica,* mustard**
chemicals, as plant constituents
erucic acid 9900
oil, fatty 4126, 9900
diallel analysis 2976
γ rays 2128
genetics, leaf, colour 6150
heritability 2976, 8092
hybridization, interspecific 6149
leaf, colour 6150
mutation, induced 2128
Plasmodiophora 7395
pollination 6149
polyploidy 2128
sowing and planting date 5306
Xanthomonas 9004
yield components 2976, 8090, 8092
***Brassica,* mustard × *Brassica,* sprouting broccoli**
hybridization, interspecific 734
quality, of edible product 734
sterility, male, cytoplasmic 734
***Brassica,* oil crops**
6731
chemicals, as plant constituents
glucosinolates 6359
oil, fatty 3343, 6148
combining ability 6148, 9904
development and growth 6731
flower 2131
flower, colour 2130–2131
fruit 5301
γ rays 2134–2135, 5302
genetics
flower, colour 2130
fruit 5301
geography 6148
growth period 5302
heritability 8088, 9904
heterosis 6148, 9904
hybridization 7165
hybridization, interspecific 9000
leaf, colour 9001
linkage 2131
mutation 5301
mutation, induced 2134–2135, 5302
neutrons 5302
polyploidy 5303, 9000
radiation 3343
seed, number 5302
seed, size 9905
stem, colour 9001
sterility and fertility 5303, 7165
yield components 2135, 6731, 8088, 9904–9905
***Brassica,* rape**
aneuploidy 8091
β rays 5619
breeding
France 7160
Sweden 3328
cell division 547
chemicals, as nutrients, miscellaneous 7162
chemicals, as plant constituents
anthocyanins 4506
enzymes 2136
erucic acid 3830, 9003, 9368, 9902
fatty acids 5305
gadoleic acid 9003
glucosinolates 548–549, 4126, 4506, 4791, 9906, 9908
isothiocynanates 9002
linoleic acid 3832, 8089
linolenic acid 3832, 8089
oil, fatty 1357, 3328, 4126, 7164, 9003, 9909
oleic acid 9003
protein 4126, 9909
thiooxazolidone 4506
vinyloxazolidinethione 9002
chemicals, cytological effects, ethyleneimine 547
chemicals, mutagenic effects
colchicine 2133
ethyl methanesulphonate 8089
chromosomes, aberrations 547, 5619
cold resistance 6565, 9910
fruit, anatomy 5304
γ rays 547, 2128, 2136

***Brassica*, rape** *contd.*
genetics
anthocyanins 4506
glucosinolates 4506
thiooxazolidone 4506
growth period 8093
haploidy 7166
heterosis 546, 2132
heterostyly 9907
history and evolution 2975
hybridization, interspecific 2975
matrocliny 7164
mutation, induced 2128, 2133, 3832, 8089
Plasmodiophora 9224
physiological races 1358
polyembryony and twinning 8091
polyploidy 7161
quality, for nutrition 549, 1357
selection, artificial 9902
sowing and planting date 8093
sterility, male 2136
varieties
France 7163
German Federal Republic 8999
S. Korea 5299
Sweden 5300
variety trials
Denmark 8087
France 2129
Norway 8998
Poland 5298, 7161, 9903
Switzerland 3831
UK 10069
X rays 2133, 8089
***Brassica*, rape × *Brassica*, cabbage**, hybridization, interspecific 2128
***Brassica*, rape × *Brassica*, kale**, hybridization, interspecific 2128
Brassica* × *Raphanus
hybridization, intergeneric 7392
sterility and fertility 7392
***Brassica*, red cabbage**
varieties, Austria 736
variety trials, Rumania 8274
***Brassica*, sprouting broccoli**
Plasmodiophora 7395
varieties, Czechoslovakia 738
***Brassica*, sprouting broccoli × *Brassica*, mustard**, hybridization, interspecific 734

***Brassica*, swede**
breeding, Poland 7955
Erysiphe 5180
genetics, *Plasmodiophora* 2834
heterosis 2007
Plasmodiophora 2834
physiological races 2834, 6610
varieties, Sweden 2296
***Brassica*, turnip**
aneuploidy 9753
breeding, Poland 7955
chemicals, as plant constituents
protein 4428
wax 5996
γ rays 5996
hybridization, interspecific 4428
Lipaphis 5996
meiosis 9753
mutation, induced 5996
varieties
Japan 5179
Netherlands 1720
variety trials, Poland 413
viruses 5993
Brassica*, turnip × *Raphanus
hybridization, intergeneric 6572
sterility and fertility 6572

Bread fruit (*see Artocarpus*)
Breeders' rights (*see* Legislation)
Breeding, technique
Arrhenatherum 8438
Beta, sugar beet 5245
Cannabis 8021
Capsicum 2170
Breeding, technique *contd.*
cereals 3369
crop plants 8485, 9362
Fagopyrum 8799
grasses 6931
Hordeum 3369
Lolium 8438
Lycopersicon 4692–4693
Medicago 9719
Populus 7341
Triticum 956, 4827
Zea, maize 6841, 9545
Bremia*, *Lactuca 8282

***Bremia*, *Lactuca*,** physiological races 7406
Brevicoryne
Brassica, Brussels sprouts 9206
physiological races 3973
Brewing quality (*see* Quality, for malting and brewing)
Brinjal (*see Solanum*, egg plant)
Briza
chemicals, as plant constituents
esterase 6960
flavonoids 380, 6960
polyploidy 380, 6960
variation 380
Broad bean (*see Vicia*, broad bean)
Broccoli, heading (*see Brassica*, cauliflower)
Broccoli, sprouting (*see Brassica*, sprouting broccoli)
Bromus
adaptability 3679
chemicals, as plant constituents, miscellaneous 369
chemicals, mutagenic effects
dimethyl sulphate 7912
N-nitroso-*N*-ethylurea 7912
N-nitroso-*N*-methylurea 7912
chromosomes, morphology 7913
chromosomes, number 5128
colour 9698
combining ability 1960, 6951, 8813
diallel analysis 1960
environment 5948
history and evolution 7913, 9391–9392
hybridization, interspecific 7914
meiosis 7913

mutation 9698
mutation, induced 7912
photoperiodism 9698
pollen 9699
pollination 4185
pollination, technique 1961
polymorphism 1962
polyploidy 7913, 9699
population genetics 1962
Puccinia, physiological races 5693
Pyrenophora 8815
quality, for nutrition 8813
seed production 5948
sterility and fertility 6951
sterility, male 9688
sterility, self 1961, 9687
stomata 9699
taxonomy 7905, 7914
temperature, effect of 9698
variety trials, USA 1177
Bruchophagus*, *Medicago 1990
Bruchus*, *Pisum 7513
Brussels sprouts (*see Brassica*, Brussels sprouts)
***Brussica*, Brussels sprouts**, sterility, self 3158
Buckwheat (*see Fagopyrum*)
Bud mutation (*see* Mutation)
***Byturus*, *Rubus*,** raspberry 6183, 9043
Cabbage (*see Brassica*, cabbage)
Cabbage, red (*see Brassica*, red cabbage)
Cacao (*see Theobroma*)
Cadra*, *Glycine 834
Cajanus
aneuploidy 5593
breeding
Antilles 2398
India 4795
Jamaica 6643
Uganda 2397
chemicals, as plant constituents
copper 8365
iron 8365
manganese 8365
***Cajanus* contd.**
chemicals, as plant constituents *contd*
phosphorus 8365
zinc 8365
chemicals, cytological effects, α-bromonaphthalene 1639
chromosomes, number 7518
chromosomes, number, technique 1639
colour 3252
corolla 8363
corolla, colour 4749, 8361, 8364
flower, colour 5592, 8360, 8362
fruit, colour 4749, 8361–8362
Fusarium, physiological races 6487
Fusarium, technique 6487
genetics 3252
corolla, colour 4749
fruit, colour 4749
habit 4749
seed, size 4748
growth period 8365
habit 3252, 4749, 8360–8363
heritability 8365
inflorescence 8363
leaf 8360, 8362–8363
leaf, number of parts 5592
linkage 8362, 8364
multiple genes 5592, 8360–8361, 8363
pathology 2349
plant collections 6643
plant introduction 6485
pleiotropy 8360, 8363
polyploidy 1640
Schizotetranychus 5594
seed, colour 5592, 8360–8362, 8364
seed, size 4748
sterility and fertility 1640
varieties, India 3251
varieties, classification 6485
variety trials, Antilles 2398
viruses 10174
yield components 1641
Calamagrostis
chromosomes, number 2430
taxonomy 8834
Calandra*, *Triticum 5787

***Calligonum*, plant introduction** 9685
Callosobruchus
Cicer 1637
Phaseolus 816
Calonectria
heterothallism 9895
Secale 6797, 8643, 8658
Secale × *Triticum* 7713
Thea 8073
Theobroma 9895
Triticum 4256, 8626
Calyx
Lycopersicon 792
Solanum, potato 9775
Calyx, colour, *Hibiscus* 7101
Camelina
γ rays 2128
mutation, induced 2128
Camellia (*see Thea*)
Canary grass (*see Phalaris*)
Cannabis
adaptability 8025
back crossing 8017
breeding
Hungary 8018, 8024
USSR 2078–2079, 6058, 8027, 9832, 9834
breeding, technique 8021
chemicals, as nutrients, nitrogen 8936
chemicals, as plant constituents
cannabinoids 2081–2082
linoleic acid 8937, 8937
oil, fatty 8937
oleic acid 8937
chemicals, fertility and sex, effects
ethyl hydrogen 1-propylphosphonate 2080
gibberellins 8019–8020
α-naphthylacetic acid 8020
chemicals, general effects, gibberellins 8019
development and growth 8019
γ rays 3771, 9833
growth period 8935
heterosis 1296
hybrid varieties 8026

Cannabis contd.
meiosis 1296
mutation, induced 3771, 9833
Orobanche 6059
photoperiodism 8019–8020
pollen 8934, 9837
polyploidy 9833
quality, of fibre 3771, 7099, 8021–8023, 8936
seed, colour 9836
sex 8017, 8019–8020, 8934–8936, 9832–9834
sowing and planting date 8025
sterility and fertility 1296
ultrasonic waves 9833
variety trials
Hungary 8024
Poland 480
Rumania 3768, 9835
USSR 481
variety trials, technique 7099
Canning quality (*see* Quality, for canning)
Cantaloupe (*see Cucumis,* melon)
Capsicum
Anthonomus 1386
breeding 5327
Ethiopia 7198
USSR 9021
breeding, technique 2170
Cercospora 8451
chemicals, as plant constituents
ascorbic acid 903, 1385, 6174
capsaicin 1387, 8121, 9019
enzymes 5330, 7197
miscellaneous 933
protein 7197
sugar 903
chemicals, fertility and sex, effects
ethyl methanesulphonate 7200
morphactins 8119
N-nitroso-*N*-methylurea 7200
chemicals, general effects
sugar 2175
vitamins 3848
chemicals, mutagenic effects, miscellaneous 5331
chromosomes, aberrations 9928
Colletotrichum 2175
colour 4530
combining ability 9019
corolla 9023
cytoplasmic inheritance 572
density of stand 4153
development, abnormal 8119–8120
embryo 8118
epidermis 1382
flower 1383, 6173, 8118–8120
flowering 8118
fruit 8118
fruit, colour 6622, 9020–9021
γ rays 574, 9023
genetics
colour 4530
fruit, colour 9020
sterility, male 575, 9019
viruses 1538, 6343
glass and plastic, cultivation under 2171, 3954, 8112
grafting 3332, 5332, 8120
growth period 572, 3848
gynecium 5330
habit 7203
haploidy 574, 2170
harvesting, mechanical 7203
heritability 571
heterosis 572, 4531, 5326, 5328, 5330, 6172, 9022
history and evolution 2174
hybrid varieties 9211
hybridization 4531, 7197, 8115
irrigation 8123
matrocliny 5329
meiosis 7201
Meloidogyne 8451
mutation 3332
mutation, induced 574, 2173, 5331, 6622, 7200, 8116, 9023
Ostrinia 1387
parthenocarpy 3848
patrocliny 5329
Phytophthora 2497, 9019
pollen 1384, 8118
pollination 1383, 3848, 5330, 6172, 9022

Capsicum contd.
Polyphagotarsonemus 8122
polyploidy 5326
quality, for processing 9019
Scirtothrips 8122
Stemphylium 5333
sterility and fertility 3848, 7200, 9019
sterility, male 574–575, 7201–7202, 8119, 9019
sterility, male, cytoplasmic 8117, 9022
taxonomy 4532
translocation 9023
varieties
Brazil 9019
Czechoslovakia 4529
Ethiopia 2992
France 9211
Hungary 8114
Italy 3954, 9019
Mexico 2172
Poland 5326
USSR 6171
varieties, classification 573
variety trials
Ethiopia 2992
Hungary 8112
Irish Republic 2171
Rumania 7199, 8113
USA 4528, 9927
Verticillium 9019
viruses 1388, 1538, 3849, 5334–5335, 6343, 7198, 8120, 8123, 8451, 9019, 9928
physiological races 2176
X rays 2173, 8116
yield components 571
Caragana
aneuploidy 9189
chemicals, cytological effects, colchicine 9189
polyploidy 2278, 9189
Caraway (*see Carum*)
Cardamine
chromosomes, number 2430
hybridization, interspecific 3199
polyploidy 3199
Carica
chemicals, general effects, gibberellins 639
flower 7583
fruit 9999
fruit, size 639
genetics, sex 9147
hybridization, interspecific 9147
plant collections 9999
seed, number 639
sex 2232, 7583, 9147, 9999
varieties, USA 6655
varieties, classification 6246

Carpel (*see* Gynecium)
Carrot (*see Daucus*)
Carthamus
breeding, USA 4517
centres of origin 5319
chemicals, as plant constituents
trans-11-tridecene-3,5,7,9-tetrayne-1,2-diol 559
trans-11- tridecene-5,7,9-triyne-1,2-diol 1371
chemicals, general effects, sodium chloride 1370
flowering 2987
genetics, sterility and fertility 9012
genome analysis 5319
germination, sodium chloride 1370
habit 9915
heritability 9010
heterosis 9011
hybrid varieties 9914
hybridization, graft 9006
hybridization, interspecific 6163
nucleus 6163
photoperiodism 9915
Phytophthora 559, 1371
plant introduction 2141
sterility and fertility 9012
sterility, self 9914
temperature, effect of 2987, 9915
sodium chloride 1370
Verticillium 2141
water balance 2987

Carum
chemicals, as plant constituents, oil, essential 5598
mutation, induced 2402
neutrons 2402
polyploidy 5598
yield components 1646
Carya
chemicals, as nutrients
chlorine 6300
iron 6300
zinc 6300
chemicals, as plant constituents, oil, fatty 1471
cytoplasmic inheritance 6300
flowering 2266
varieties, USA 4551
variety trials
Tunisa 8128
USA 5449
Caryocinesis (*see* Cell division)
Caryopsis (*see* Seed)
Caryotype (*see* Chromosomes, morphology)
Cashew (*see Anacardium*)
Cassava (*see Manihot*)
Castanea
chemicals, as plant constituents, tannin 6301
Dryocosmus, physiological races 5450, 6301
Endothia 8236
Endothia, technique 8234
genetics, *Dryocosmus* 6301
hybridization, interspecific 8236
varieties, USA 8237
Castor oil plant (*see Ricinus*)
Cauliflower (*see Brassica,* cauliflower)
Cavity spot, *Daucus* 9046
Cedrela
chromosomes, number 6312
geographical races 8245

Celeriac (*see Apium*)
Celery (*see Apium*)
Cell death, *Zea,* maize 8722
Cell division 31, 36–37, 2442–2443, 2446, 3281, 7434, 8405–8407
Allium, onion 25, 27, 2433, 2435, 2445, 2447–2448, 2450, 3280, 4098, 7550, 7552, 7558, 9337
Brassica, rape 547
Crepis 1671, 7551
Cucurbita 754
cucurbits 744
Ephedra 579
Haemanthus 881
Helianthus, Jerusalem artichoke 8403
Helianthus, sunflower 554
Hordeum 23, 270, 4352, 6875, 7552, 7845
Lactuca 23
Mentha 4088
Nicotiana 1334, 2929
Ornithogalum 33
Oryza 2740, 5917
Phalaris 2449
Phaseolus 4045
Picea 3140
Pisum 886, 3282, 7505, 8352, 8402
Secale 7558, 7783
Secale × *Triticum* 6718
Solanum, potato 5200
Tilia 7349
Triticum 3454, 3503, 5732, 5738
Vicia, broad bean 20, 28, 891, 2355, 2431, 2437, 4026, 4028, 4101, 4768, 4771, 5621, 6524–6525, 7452, 7549, 7559, 8323, 8401, 9333
Zea, maize 231, 894, 2639, 4770, 6821, 9573
Cell inclusions
Hordeum 8746
Ribes, red currant 643
Zea, maize 8917
Cenchrus
chromosomes, number 1171, 6940
dormancy 5138
flooding 4410
germination 5138
meiosis 6940
Centres of origin (*see also* History and evolution)
Carthamus 5319

Centres of origin *contd.*
crop plants 908, 5672–5673
Glycine 1617, 4065
Mangifera 7290
Solanum, potato 429, 4444
Triticum 4863, 7757
Zea, maize 1087, 4973
Centromsema, chemicals, as plant constituents, nitrogen 8874
Centrospora, *Apium* 6377
Cephalosporium
Glycine 3239, 6467
Zea, maize 3604, 6847
physiological races 6851
Cephus, *Triticum* 7662
Cerasus (*see Prunus,* cherry)
Ceratocystis., *Coffea* 2961
Ceratocystis
Coffea 5287, 7155
development and growth 1508
forest trees 7339
Hevea 2997
temperature, effect of 1508
Theobroma 2467, 5290–5291, 9894
Ulmus 1508, 2273, 3129–3132, 7339, 7345–7346
physiological races 6319, 8249
Cercospora (*see also Mycosphaerella*)
Apium 10093
Arachis 2494
Beta 2089
Beta, sugar beet 513, 2089, 2095, 3795, 4483, 9854
Capsicum 8451
Nicotiana 1338, 2943–2944, 2946–2947, 7147
physiological races 2942
Saccharum 495
Vigna 4048
Cercospora, **technique,** *Beta, sugar beet* 4484
Cercosporella
Hordeum 6607
Secale 3389, 3554
Triticum 1798, 3389
Cereals
andrecium 8528
Ascochyta 8534
breeding 3370
Czechoslovakia 1745
Denmark 9385
Finland 3368
German Democratic Republic 3390
India 79
New Zealand 6673
Poland 3367
Sweden 1751
Switzerland 1744
USSR 1743, 4182, 6626, 6663, 7621
breeding, technique 3369
chemicals, as nutrients, nitrogen 1745
chemicals, as plant constituents
aminoacids 3384
glutelin 89
lysine 952
miscellaneous 2510, 3349, 7645, 9394
protein 951, 3382, 7674
protein, technique 2748
tryptophan, technique 8530
chemicals, general effects, CCC 91, 91
Cochliobolus 4822
competition 1745
density of stand 1752
development and growth 5684
dormancy 4186
fungi 3390
physiological races 3388
Fusarium 9397
genetics 3377
pathology 953, 2513
genome analysis 3379
genotype × environmental interaction 945
growth period 1752
gynecium 8528
height 8528
Heterodera, physiological races 4188
heterosis 1749, 3378
history and evolution 89, 7652, 9380–9381
hybridization, intergeneric 86, 1748
irrigation 9395
leaf, size 1752
Cereals *contd.*
lodging 90–91, 4187, 5691
Macrosiphum 8536
mitochondria 1749
pathology 953, 2513, 6673, 9396
photosynthesis 3380, 8528
plant collections 78, 5681, 8526
polyploidy 948
Puccinia 8535
Pyricularia 8796
quality, for nutrition, technique 952
Rhopalosiphum 8536
root 8529
seed production 3386, 7621
selection, artificial 945
silage 2510
sowing and planting date 3369
sowing, technique 3364
taxonomy, technique 9394
temperature, effect of 5684
Ustilago 4823
varieties 85
Australia 2504
Austria 3308
Bulgaria 2485
Switzerland 3375–3376
Tunisia 5680
UK 4184, 6580
variety trials 5679
Canada 82
India 3373
Poland 947
Switzerland 1746, 3372
UK 2502, 6580, 6612
USA 80–81, 83, 1747, 7669
water balance 6669
yield components 949, 1749, 2508
Cereals, quality, nutritive value 1751
Cerotelium, *Gossypium* 8910
Chaenomeles × ***Malus,*** hybridization, intergeneric 9069
Chalcodermus, *Vigna* 822
Chamaecyparis
chemicals, as plant constituents, chlorophyll 702
colour 702
genetics, colour 702
quality, of timber 4648
Chemicals, as nutrients
acids, *Cochliobolus* 8726
ammonium chloride, *Triticum* 6765
ammonium nitrate, *Triticum* 6765
ammonium sulphate, *Triticum* 6765
boron
Gossypium 7085
Lycopersicon 6416
calcium
crop plants 9383
Oryza 9383
Zea, maize 2647
carbohydrates, *Cochliobolus* 8726
carbon, active, *Nicotiana* 9890
carbon dioxide
Lactuca 8469
Lycopersicon 10116
chlorine, *Carya* 6300
inositol, *Ustilago* 7546
iron
Arachis 3846
Carya 6300
Glycine 4063, 9294
pulses 802
Sorghum 6907
Zea, maize 9581
kinetin, *Nicotiana* 9890
magnesium
Elaeis 8107
Lolium 3683
Nicotiana 6128
Zea, maize 2647
manganese, vegetable crops 2301
miscellaneous
Arachis 7183
Beta, sugar beet 3784, 6091, 9869
Brassica, rape 7162
Citrus 631
Corchorus 6061
Cucumis, cucumber 6392
cucurbits 6379
Glycine 7483, 7486
Hordeum 262, 2706, 4356, 7854
Chemicals, as nutrients *contd*
miscellaneous *contd.*
Linum 1293
Lycopersicon 6405
Nicotiana 6124
Oryza 1161
Picea 2289
Pyrus 7257
Solanum, potato 425, 1243, 2025, 2859
Thea 1343
Trifolium, subterranean clover 4423
Triticum 998–999, 4231, 8562, 9484
Zea, maize 238, 1089–1090, 2630, 2648, 4957, 6839, 6842, 7824, 8719
Zea, sweet corn 4988
nitrogen
Beta, sugar beet 9881
Cannabis 8936
cereals 1745
Dactylis 1175, 8808–8809
Fagopyrum 7900
Glycine 3230, 6465
Gossypium 2060, 7084
grasses 8808–8809
Hordeum 1122, 1885, 5008
Lolium 2772, 3682, 4406, 6608, 7906
Lycopersicon 1579, 4011
Nicotiana 5277
Oryza 331, 1162, 2752, 3670, 4386, 5038, 5091, 5093, 5925, 7884, 9676
Pennisetum 6899
Phaseolus 1597
Phleum 8809
Poa 8808–8809, 9693
Saccharum 2901
Secale 5686, 6795
Setaria 5881
Solanum, potato 6015–6016
Sorghum 292, 6906
Spinacia 10089
Trifolium, red clover 7906
Trifolium, white clover 6609
Triticum 104, 163–164, 167, 1034, 1777, 2581–2582, 2588, 3483, 4872, 5686, 5702, 5770, 6735, 6738, 6762, 8604, 9406, 9485–9487
Vitis 3113
Zea, maize 243, 4323–4324, 4976, 5828
phosphorus
crop plants 9383
Fagopyrum 7900
Glycine 3230, 6465
Gossypium 2060, 6041, 7084
Nicotiana 8993
Oryza 4392, 5092, 7884, 9676
Pennisetum 6899
Sorghum 6907
Triticum 5686, 5770–5771, 6738
Zea, maize 243, 2647, 5828
potassium
Fagopyrum 7900
Gossypium 6047, 7084
Oryza 7884, 9676
Setaria 5881
Thea 6131
Triticum 6738
Vitis 3113
Zea, maize 2647, 2655, 5828
sodium, *Lolium* 3683
sulphate, *Zea,* maize 236
sulphur
Lolium 7906
Medicago 2807
Trifolium, red clover 7906
zinc
Carya 6300
Glycine 3230
Oryza 5092, 9677
Chemicals, as plant constituents
abscisic acid, *Malus* 7249
acetaldehyde, *Pisum* 7507
acid phosphatase
Aegilops 3522
Lycopersicon 1567
acids
Beta, sugar beet 6102
Lycopersicon 4011, 4700
Malus 9960
Pisum 6476
Prunus, plum 9973
adenosine diphosphate glucose pyrophosphorylase, *Zea,* maize 9592

Chemicals, as plant constituents *contd.*
aflatoxin, *Zea,* maize 1876
β-alanine, *Nicotiana* 8057
alcohol dehydrogenase
Secale 209
Triticum 1763
Zea, maize 1842, 2635
aldolase, *Gossypium* 9817
alkaloids
Atropa 7205
Claviceps 3254, 4751
Lupinus 406, 3715, 5172, 5992
Nicotiana 523, 523, 523, 2112, 2930, 5275, 7142, 8063, 8460, 8969, 8992
Papaver 1351, 5294, 9897
Phalaris 8826, 9707–9708
Scopolia 7206
Solanum 5417
alkaloids, technique, *Nicotiana* 6122
allantoinase, *Arachis* 5322
aminoacids
Triticum 1762
Acer 7351
Avena 1046
Beta, sugar beet 3794, 3799, 4479, 4486, 7123
Betula 3942
Brassica, cabbage 6368
cereals 3384
Cocos 3045
Daucus 905
Dolichos 8836
Glycine 4738, 9287
Hordeum 1126, 9639
leguminous forage crops 8836
Lupinus 8869
Lycopersicon 8307
Malus 9960
Malva 8881
Oryza 3665
Phaseolus 9275
Populus 1504
Prunus, cherry 9123
Secale 8531, 8653
Secale × *Triticum* 981, 981
Solanum, potato 2858, 4443, 7018, 8886
Sorghum 4375, 5899
Sphacelotheca 308
Triticum 1018, 1783, 3384, 3485, 7752, 8531, 8611, 9443
Vigna 823, 6619
Vitis 4622, 7331
Zea, maize 1085, 1869, 3592, 4313, 4969, 5821, 6836, 8531, 8679, 8688, 8710, 9594, 9600
γ-aminobutyric acid, *Brassica,* cabbage 8278
aminopeptidase, *Pisum* 837
amylase
Aegilops 6703
Agropyron 150
Hordeum 4996, 5866, 6569, 6868
Triticum 150, 3309, 6703

amylose
Oryza 3668, 5915
Solanum, potato 8890
Zea, maize 7824
anthocyanins
Brassica, rape 4506
Fragaria 4608, 8199
Helianthus, sunflower 8096
Pyrus 9036
Salix 6320, 9040
Secale 2625, 4878
Solanum, potato 2016, 9774
Trifolium, crimson clover 402
Vaccinium 7297
Vitis 3112, 4620, 4627, 6292–6293, 7317, 7322
Zea, maize 1841, 5823, 6822
ascorbic acid
Brassica, kohl rabi 6996
Capsicum 903, 1385, 6174
Fragaria 8199
Lycopersicon 789, 3189, 4709, 8312
Malus 3863, 6196, 9078, 9960
Prunus, apricot 614
Prunus, nectarine 614
Prunus, peach 614, 626, 5381, 7281
Prunus, plum 614, 9974
Pyrus 6196

Chemicals, as plant constituents *contd.*
ascorbic acid *contd.*
Ribes, black currant 7224
Xanthosoma 5541
Zizyphus 2250
ash, *Zea,* maize 2649
asparagine, *Nicotiana* 8057
Atriplex 4720
auxins
Cocos 3044
Sorghum 9655
Zea, maize 5827
azulene, *Achillea* 6177
butanol, *Malus* 605
caffeine, *Coffea* 2957, 8079
calcium
Beta, sugar beet 9883
Elaeis 3841
Glycine 4061
Malus 606, 8137
Oryza 1164
Picea 4647
Prunus, plum 8135
Pyrus 8135, 8137
Raphanus 8264
cannabinoids, *Cannabis* 2081–2082
capsaicin, *Capsicum* 1387, 8121, 9019
carbohydrates
Cucumis, melon 5505
Dactylis 9696
Glycine 3238
Gossypium 7068
Lagenaria 1560
Nicotiana 6123
Polygonum 1391
Triticum 4241, 8590, 9466
Vicia, broad bean 9266
Zea, maize 3593, 4321, 5833
Zea, sweet corn 5844
carbonic anhydrase 41
Zea, maize 9570
carboxylase, *Pisum* 10164
carotene
Daucus 905, 10072
Phaseolus 6438
β-carotene, *Lycopersicon* 779
carotenoids
Daucus 2303, 3958
Ipomoea 7044
Lolium 7917
Lycopersicon 1577, 4709, 7428
Malus 9078
Medicago 388
Solanum, potato 8895
Spinacia 9226
Zea, maize 1869, 7813
carvone, *Mentha* 6490
catalase
Brassica, kohl rabi 6996
Gossypium 4455
Olea 4520
Phaseolus 4043
Zea, maize 1838, 8696
catechins, *Malus* 9078
catechol oxidase, *Phaseolus* 4043
chlorine, *Nicotiana* 8069
chlorogenic acid
Helianthus, sunflower 2140, 4791
Theobroma 3298
chlorophyll
Aegilops 3526
Arabidopsis 9331
Arachis 563
Brassica 2833
Chamaecyparis 702
crop plants 8503
Dactylis 8808
Daucus 10072, 10074
Elaeis 7176
Gossypium 9807
grasses 8808
Hordeum 1895, 8739
Lycopersicon 3188, 5532
Malus 4561, 9080
Medicago 1982, 5152
Oryza 7881
Phaseolus 10136
Pinus 692
Pisum 5584
Poa 8808
Secale 950, 1052
Solanum, potato 7017, 8895
Sorghum 4374

Chemicals, as plant constituents *contd.*
chlorophyll *contd.*
Triticum 950, 1044, 4857, 5735
Zea, maize 2659, 5828, 6846, 8694, 8709
chlorophyll a, *Glycine* 4735

chromatin 5617
Crepis 7551
Rumex 4022
cineol, *Eucalyptus* 2274
citric acid, *Lycopersicon* 2340
citronellol, *Nepeta* 9017
codeine, *Papaver* 2970
copper, *Cajanus* 8365
cucurbitacin
Citrullus 1552
Cucumis, melon 1552
Lagenaria 1552
β-cyanoalanine, *Lathyrus* 5171
cyanogenetic compounds
Lotus 1733, 2002, 3717
Phaseolus 3214
Sorghum 303, 1144, 1733, 6906
Trifolium 2815
Trifolium, white clover 1733
cyclopropylamino compounds, *Acer* 7351
cytochrome c, crop plants 45, 4115, 8509
cytochrome oxidase, *Zea,* maize 9563
dextrin, *Zea,* sweet corn 9615
β-diketones, *Hordeum* 265
diosgenin, *Dioscorea* 5659
p-diphenol oxidase
Puccinia 9506
Triticum 9506
DNA 2443

endopolygalacturonase, *Colletotrichum* 3218
enzymes 2416
Triticum 1762
Aegilops × *Triticum* 5768
Arachis 7189
Avena 196, 6784
Brassica, rape 2136
Capsicum 5330, 7197
crop plants 8505
Cucumis, cucumber 1557
Glycine 830
Helianthus, Jerusalem artichoke 8403
Helianthus, sunflower 6162
Hordeum 280, 2693, 8752
Lupinus 9750
Lycopersicon 2341, 8310
Malus 9960
Medicago 6972
Nicotiana 7135
Rhizoctonia 76
Secale × *Triticum* 5768
Triticum 1000, 1762, 4837, 5768, 7162, 7769, 8611
Verticillium 2127
Vitis 3104
Zea, maize 1068, 1081, 1081, 1099, 1860, 4319, 4328, 4950, 4957, 6813, 8505, 8705
erucic acid
Brassica, mustard 9900
Brassica, rape 3830, 9003, 9368, 9902
esterase
Aegilops 3522
Avena 2613, 2616
Briza 6960
Cucurbita 6386
Gossypium 4455
Hordeum 2705, 5011–5012, 6868
Lycopersicon 2332
Nicotiana 7649, 8990
Pinus 4637
Solanum, potato 6542
Trifolium, red clover 8858
Triticum 8554
Zea, maize 4942
ethyl methanesulphonate, *Triticum* 4227
ethylene, *Lycopersicon* 9249
fatty acids
Brassica, rape 5305
Claviceps 3254
Tripsacum 7832

Chemicals, as plant constituents *contd.*
flavonoids
Arachis 4526
Avena 2613, 8638
Briza 380, 6960
Coffea 5287
Euchlaena 7823
Festuca 3686
Glycine 10149
Linum 6551
Malus 9083
Morus 9995
palms 9146
Prunus, cherry 2214
Salix 9040
Trifolium, subterranean clover 2820
Ulmus 2272
Valerianella 7450
Zea, maize 7823
flavonols, *Brassica* 8271
gadoleic acid, *Brassica,* rape 9003
galactose, *Sphacelotheca* 3645
geraniol, *Nepeta* 9017
gibberellins
Cucumis, cucumber 745
Cucumis, melon 745
Hordeum 6569, 6879
Oryza 1156, 2454
Pisum 9308
Sorghum 9655
Triticum 962, 6741
gliadin
Aegilops × *Triticum* 996, 6740
Triticum 996, 996, 6739–6740, 6745, 9469

β-glucosidase, *Zea,* maize 9608
glucosinolates
Brassica 6359
Brassica, kale 5498
Brassica, oil crops 6359
Brassica, rape 548–549, 4126, 4506, 4791, 9906, 9908
2-*O*-glucosyl-2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one, *Triticum* 1807
glutamic decarboxylase, *Brassica,* cabbage 8278
γ-glutamyl peptides, *Acer* 7351
γ-glutamylphenylalanine
Dolichos 8836
leguminous forage crops 8836
glutathione, *Triticum* 159–160
glutelin, cereals 89
gluten
Aegilops × *Triticum* 9474
Triticum 3483, 8540, 9474
glutenin, *Triticum* 4886, 5760
glycine, *Nicotiana* 8057
glycoalkaloids, *Solanum,* potato 902, 2853, 2855, 3737, 5205, 7028
glycosides
Coffea 7155
Digitalis 5337
glyoxalic acid, *Sphacelotheca* 3645
gossypol, *Gossypium* 472–473, 2059, 3763, 9822, 9827
growth regulators
Cucumis, cucumber 762
Fagopyrum 7899
Gossypium 7997
Lycopersicon 7439
Medicago 9732
Triticum 3496
gum
Cyamopsis 412
Secale 3553
heterochromatin
Nicotiana 2110
Vicia, broad bean 5616
Zea, maize 1839, 2639
histidine, *Gossypium* 2062
histone 2414
Aegilops 4219
crop plants 9376
Nicotiana 6114–6115
Secale 4219
Secale × *Triticum* 127
Triticum 4219
homoserine
Cicer 9263
Lens 9263
Pisum 7510, 9263
Vicia, broad bean 9263

Chemicals, as plant constituents *contd.*
homoserine *contd.*
Vicia, vetch 9263
hydrocarbons
Citrus, grapefruit 634
Citrus, lemon 1422
Citrus, lime 635
Citrus, orange 5385
hydrogenase, *Rhizobium* 806
IAA, *Solanum,* potato 444
IAA oxidase, *Triticum* 8618
invertase
Hordeum 5867
Vitis 8220
iron
Cajanus 8365
Ficus 9991
Prunus, almond × *Prunus,* peach 9131
Prunus, peach 9131
isothiocynanates, *Brassica,* rape 9002

Oenothera 2410
latex, *Hevea* 582, 6179
leucine, *Oryza* 5925
leucine aminopeptidase
Cucurbita 6386
Gossypium 4455
Lupinus 8870
lignin
Festuca × *Lolium* 8458
Lespedeza 4425
Zea, maize 1067, 8688–8689
linalyl acetate, *Lavandula* 6168
linoleic acid
Brassica, rape 3832, 8089
Cannabis 8937, 8937
Helianthus, sunflower 9901, 9913
Juglans 3116, 10047
Linum 9901
Medicago 9730
Zea, maize 8457
linolenic acid
Brassica, rape 3832, 8089
Juglans 3116, 10047
Linum 9900–9901
Zea, maize 8457
lipids, *Zea,* maize 5816
lipolytic acyl hydrolase, *Solanum,* potato 7981
lipoxygenase, *Solanum,* potato 7981
lobeline, *Lobelia* 7207
lysine
Avena 7666
cereals 952
Hordeum 1751, 7666, 7846, 7850, 8753, 9632
Medicago 7938
Nicotiana 8057
Oryza 5033, 5111, 5907, 5926, 8792, 9675
Pisum 8351
Secale 5686
Secale × *Triticum* 7743
Sorghum 1918, 5030
Triticum 154, 5070, 5686, 7743, 8598
Vigna 2372
Zea, maize 240, 1867, 2636, 3591, 4320, 4967–4968, 4970, 5834–5835, 7587, 8716–8717, 9596, 9599
lysine, technique
crop plants 8508
Zea, maize 6832, 8714
magnesium
Beta, sugar beet 9883
Elaeis 3841
Glycine 4061
Picea 4647
Prunus, plum 8135
Pyrus 8135
Raphanus 8264
Triticum 4888
malate dehydrogenase
Triticum 8554
Zea, maize 1845
malic acid, *Lycopersicon* 2340
malvidin-3,5-diglucoside, *Vitis* 666
malvidin-5-glucoside, *Vitis* 666
malvin, *Vitis* 6291
manganese
Cajanus 8365
Solanum, potato 2027
Zea, maize 4959

Chemicals, as plant constituents *contd*
menthol, *Mentha* 5595, 6489, 9018, 9932
methionine
Arachis 1376
Glycine 8316
Medicago 7939
Phaseolus 4725, 8316
Vigna 2372
5-methylcytosine, *Gossypium* 7996
mimosine, *Leucaena* 5943, 8252

miscellaneous 900

miscellaneous
Avena 1816
Beta 9847
Beta, sugar beet 3780, 6089, 9850, 9862, 9881–9882
Betula 1507, 7657
Brassica, kale 10087
Bromus 369
Capsicum 933
cereals 2510, 3349, 7645, 9394
Citrus 7283
crop plants 1736
Fragaria 904, 5412
Glycine 3233, 3240
Gossypium 6051
Helianthus, sunflower 9007
Hordeum 1125
Humulus 5297
Lupinus 405
Lycopersicon 933, 3349
Malus 1404, 3862, 4562
Nicotiana 2927, 2931, 5269
Olea 3842
Onobrychis 6988
Oryza 6929
Phaseolus 4177, 6442
Prunus, almond 671
Prunus, cherry 1415
Pseudotsuga 1532
Pyrus 1406, 3010, 7257
Rubus, raspberry 640, 7293
Salvia 9313
Secale 3551
Solanum, potato 5204, 6010–6011, 6016, 8894
Sorghum 6905
Thea 4498, 8075
Trifolium 6975
Triticum 1031
Vitis 5443
Zea, maize 943, 1857, 3349, 4308, 6839
morphine, *Papaver* 1350, 2124, 4505, 5293
naphthaldehydes, *Gossypium* 7091
niacin, *Coffea* 2958
nicotine, *Nicotiana* 2914, 2932, 5647, 6111, 6123, 7602, 8055, 8973
nitrate, *Spinacia* 10088–10089
nitrate reductase
Glycine 1611
Hordeum 1895
Triticum 8592, 9487
nitrate reductase, technique, *Sorghum* 8773
nitrates, *Nicotiana* 1337
nitrite, *Spinacia* 10089
nitrogen
Centromsema 8874
crop plants 5671
Dactylis 8808–8809
Elaeis 3841
grasses 8808–8809
Hordeum 4355
Lolium 7906
Malus 9081
Nicotiana 5280
Onobrychis 5987, 6987
Oryza 3664, 5074, 5109, 6924
Panicum 6890
Phalaris 5951–5953
Phleum 8809
Picea 4647
Pisum 6479, 7508
Poa 8808–8809
Solanum, potato 4441
Sorghum 6906, 8772
Trifolium, minor species 6984
Trifolium, red clover 7906

Chemicals, as plant constituents *contd.*
nitrogen *contd.*
Triticum 3457, 4873, 5074, 5761, 7758
Vigna 823
Zea, maize 240, 4310, 7803, 7820, 9598
nitrogen, technique, *Triticum* 8594
nitrogenase
pulses 5549
Rhizobium 5549
nornicotine, *Nicotiana* 1335
nucleic acids 877, 2414, 2443, 3272, 3278, 4760, 7533
Aegilops 143
Agropyron 3693
Allium, minor species 3150
Allium, onion 3273
Avena 199, 1048, 2618
Beta 7109
crop plants 3150, 4100, 8393
Cucurbita 4686
forest trees 3937
Glycine 2380
Gossypium 7996
Helianthus, Jerusalem artichoke 8403
Helianthus, sunflower 554
Hordeum 2708, 3620, 6871
Linum 8930
Lotus 6991
Malus 9954
Morus 2228, 4592
Nicotiana 6114–6115, 8460
Oryza 3661
Phaseolus 30, 882, 4726
Picea 673
Pinus 673, 3137
Prunus, apricot 2204
Rhizobium 2380
Saccharum 5240
Secale 8648
Triticum 143, 1762, 3349, 3421, 3693, 4213, 6701, 7698, 8580
Vicia, broad bean 3265, 4102, 7549
Zea, maize 3593, 7809
nucleotides, *Gossypium* 9811
oil, essential
Anethum 8368
Apium × *Petroselinum* 8370
Carum 5598
Eucalyptus 7347
Fragaria 5414
Iris 9017
Lavandula 2168, 6168, 9924–9925
Lilium 9018
Mentha 852, 855, 1642, 1642, 1642, 5595, 6142, 7519–7520, 8367
Ocimum 4750
Pinus 1524
Rosa 2168–2169
Salvia 2168, 9018
Thymus 856, 1648, 7522
Valeriana 6176
oil, fatty
Arachis 567–568, 1377, 3295, 3845, 4525, 6166, 9013
Brassica, mustard 4126, 9900
Brassica, oil crops 3343, 6148
Brassica, rape 1357, 3328, 4126, 7164, 9003, 9909
Cannabis 8937
Carya 1471
Cocos 637
Coffea 6135
Glycine 615, 1615–1616, 2376, 3227, 3235, 5569, 9287, 9295
Gossypium 5220, 7086, 9810, 9816–9817
Helianthus, sunflower 1368, 2985, 4511, 4791, 5316, 6161, 7171, 7603, 8102, 9900–9901, 9912–9913
Hevea 582–583
Juglans 3116, 5448, 10047
Linum 475, 1289–1291, 2077, 2128, 4791, 9900–9901
Nicotiana 530
oil plants 1356, 6147
Olea 8126, 9939
Oryza 3669
Persea 6249
Prunus, almond 1473
Sesamum 550–551, 3343
Solanum, potato 7980

Chemicals, as plant constituents *contd.*
oil, fatty *contd.*
Triticum 6746
Zea, maize 237, 1868, 3592, 4962, 5836–5838, 9591, 9601
oil, fatty, technique
Arachis 2974
Glycine 2974
Helianthus, sunflower 2974
oleic acid
Brassica, rape 9003
Cannabis 8937
Helianthus, sunflower 9901, 9913
Linum 9901
oxalate, calcium, *Malus* 5354
oxalic acid
Setaria 5020, 5881
Spinacia 9225
oxazolidinethione
Brassica 6358
Raphanus 6358
oxidase, *Malus* 9085
pectin
Apium × *Petroselinum* 3162
Citrus, orange 9988
Lycopersicon 10112
Vitis 2259, 9181
pectin esterase
Lycopersicon 1575
Phoenix 1433
perloline
Festuca 8817
Festuca × *Lolium* 8458, 8817
Lolium 8817
peroxidase
Arachis 7187
Avena 5790
Cucurbita 756
Dendrocalamus 6962
Desmodium 8875
Helianthus, sunflower 4512
Linum 2887, 8933
Lycopersicon 1583, 2345, 7440
Malus 8148
Nicotiana 2114, 7649
Olea 4520
Oryza 3333
Phaseolus 4043, 7467
Pisum 7506, 9937
Prunus, apricot 8162
Solanum, potato 2037, 7033
Thujopsis 3345–3346, 5483
Ulmus 1491
Vitis 662
phaseolin
Phaseolus 5546
pulses 5546
phenols
Aegilops 4246
Agropyron 8831
Avena 5794
Coffea 5287
crop plants 897
Helianthus, sunflower 558
Hordeum 4349
Lycopersicon 4713, 6422
Nicotiana 2114, 8460
Oryza 5931, 8798
pome fruits 8136
Prunus, plum 2208
Pyrus 7255, 9036, 9092
Ribes, black currant 6255–6256
Ribes, gooseberry 6255
Solanum, potato 443, 6020
Theobroma 5291
Triticum 1781, 4246
Vitis 5433
phenols, technique, *Linum* 8933
phenylalanine ammonia lyase, *Solanum,* potato 9793
phosphatase, *Gossypium* 9817
phosphatidase, *Erwinia* 2304
phosphoenolpyruvate carboxylase, *Zea,* maize 9570
phosphorus
Cajanus 8365
Elaeis 3841
Glycine 4061
Gossypium 8002
Lycopersicon 9250
Malus 8137
Picea 4647
Prunus, peach 7279

Chemicals, as plant constituents *contd.*
phosphorus *contd.*
Pyrus 8137
Saccharum 6074
Secale 4925
Triticum 3480, 7758, 9462
Zea, maize 4310, 7814, 8706, 9598
Zea, sweet corn 9615
phytic acid, *Triticum* 3480
phytin, *Zea,* sweet corn 9615
phytoalexins
crop plants 2495
Glycine 7490
pigments
Malus 7251
Vitis 6287
pisatin, *Pisum* 4083
polygalacturonase, *Lycopersicon* 6417
polyphenol oxidase
Olea 4520
Prunus, plum 2208
Solanum, potato 2037, 7033
potassium
Beta, sugar beet 9883
crop plants 5671
Elaeis 3841
Glycine 4061
Malus 8137
Picea 4647
Prunus, plum 8135
Pyrus 8135, 8137
Raphanus 8264
Setaria 5938
Triticum 4888
Zea, maize 4959, 5835, 7814, 8706, 9598
prolamine, *Oryza* 5111
protein 9349
Aegilops 2609
Aegilops × *Triticum* 4215, 7711, 9474
Allium, onion 10077
Anacardium 2269
Arachis 3845, 7189, 8110
Avena 198, 1819, 2613, 3530, 5795, 7666, 8640, 9522, 9524
Betula 5460
Brassica 1547, 10084
Brassica, cabbage 4173, 6365
Brassica, rape 4126, 9909
Brassica, turnip 4428
Capsicum 7197
cereals 951, 3382, 7674
crop plants 1732, 4100, 4793
Cucumis, cucumber 4173
Dioscorea 514
Fagopyrum 7900
Glycine 1614, 1616, 2376, 3227, 3235, 4062, 4064, 4738, 5569, 5578, 6449, 8316, 9287, 9295, 10147–10148
Gossypium 1288, 1288, 8000, 8918
Helianthus, sunflower 1367, 4813
Hordeum 1122–1123, 1889, 1899, 2697, 3383, 3623, 4120, 4346, 4354, 5000, 5008, 6884, 7666, 7842, 7846, 7850, 7852, 8422, 8753, 9632
Juglans 10047
Lathyrus 8877
leguminous forage crops 7645
Linum 4460
Lolium 7906
Lupinus 7954
Lycopersicon 2332, 3188, 7437
Malus 4558, 8143, 9081
Malva 8881
Malvaceae 6530
Manihot 3801
Medicago 392, 396, 1985, 3701, 5967, 6969, 6972, 7939
Miscanthus 5142
Nicotiana 3809, 6114
Onobrychis 5987, 6987
Oryza 325, 329, 1152, 1164, 1937, 2746–2748, 3666, 3668, 4387, 4390–4391, 5033, 5069, 5071, 5111, 5907, 5915, 5925–5926, 6924, 7879, 8792, 9675
Panicum 5879
Phaseolus 3214, 3218, 4726, 5562, 8316, 8332, 9275
Pinus 3137

Chemicals, as plant constituents *contd.*
protein *contd.*
Pisum 3247, 4741, 4743, 4813, 5586, 6478, 7504, 8351, 8354–8355, 8357, 9301, 9306
Prunus, almond 1473
Saccharum 8036
Secale 4269, 4918, 5686, 5722, 8531, 8653, 9531
Secale × *Triticum* 3440, 5722, 7705, 7711, 7743, 9426, 9432
Sesamum 552
Solanum, potato 2020–2021, 2857, 4439–4440, 4443, 5186, 5199, 5209, 5999–6000, 6542, 7979, 7982, 8887, 8892, 9758, 9782, 9786
Sorghum 300, 1918, 5030, 5899, 8772
Trifolium, red clover 7906
Trifolium, subterranean clover 5169

Triticum 1034, 1761, 1771, 1785, 2571, 2578, 2580, 2582, 2584, 2588, 3383, 3474, 3476–3477, 3479, 3484, 3502, 4236, 4242–4245, 4248, 4850, 4877, 4884, 4889, 5070, 5686, 5722, 5750, 5754, 5756–5758, 5761–5762, 5765–5766, 6723, 6729, 6744, 7733, 7743, 7748, 7769, 8531, 8540, 8560, 8592, 8594, 8596, 8598, 8600, 8604, 9473–9475, 9477–9478, 9482
Verticillium 2127
Vicia, broad bean 3207, 4102
Vigna 2372
Vitis 661, 4622, 7326, 8220, 9181
Zea, maize 238, 1086, 1865–1867, 1869, 2651, 3581–3582, 3589–3592, 4282, 4296, 4310, 4313, 4961, 4964, 4966, 4968–4969, 5834, 5837, 6833–6835, 6837–6838, 6841, 8531, 8679, 8712–8713, 8715–8716, 8729, 9594, 9596–9598, 9601
aminoacids 4969
Zea, popcorn 5845
Zea, sweet corn 3590, 9615
protein, technique
cereals 2748
Medicago 9735
Solanum, potato 3738
Triticum 156
pulegone, *Mentha* 6489
pyrethrins, *Chrysanthemum* 5638
pyridoxine, *Arachis* 9919
pyrophosphorylase, *Zea,* maize 1863
resin, *Pinus* 1524, 7352
riboflavin
Sorghum 9584
Zea, maize 9584
ribonuclease, *Zea,* maize 2653
ribulose diphosphate carboxylase
Hordeum 1895
Zea, maize 1074

maize 9570
ribunuclease, *Nicotiana* 4494
rishitin
Lycopersicon 10123
Solanum, potato 1739, 6020, 7033
saponins, *Medicago* 9734
SH compounds, *Triticum* 1804
sodium
Beta, sugar beet 9883
Raphanus 8264
Setaria 5938
Zea, maize 4959
solasodine, *Solanum* 9932, 10020–10021, 10023
stachyose, *Arachis* 2990
starch
Hordeum 275, 5010
Ipomoea 7044
Manihot 2911
Oryza 3666–3667, 5069, 5907
Prunus, peach 7281
Secale 8653
Secale × *Triticum* 125, 125
Solanum, potato 424, 1231, 1242, 2020–2021, 4125, 5185, 5189, 5998–6000, 7008, 7979, 8884, 9754, 9758, 9781–9784
Sorghum 88
Triticum 155, 5761
Zea, maize 88, 4965, 5837, 9601

Chemicals, as plant constituents *contd.*
starch *contd.*
Zea, popcorn 5845
Zea, sweet corn 9615
sterols, *Nicotiana* 5273
suberin, *Solanum,* potato 7015
sugar
Acer 5464
Beta 5258
Beta, sugar beet 3782, 3794, 3799, 4479, 6091, 7121, 8047, 9848, 9865, 9884, 9887
Brassica, kohl rabi 6996
Capsicum 903
Citrullus 3984
fruit crops 4554
Glycine 4738, 9295
Ipomoea 9797
Lycopersicon 788, 4709, 7437
Malus 3863, 9062
Nicotiana 2937, 7147
Oryza 5120
Phaseolus 1596
Phoenix 6245
Pisum 3247
Poa 363
Prunus, cherry 9123
Prunus, peach 5381
Prunus, plum 9973
Saccharum 492, 2900, 8943
Secale 3387
Solanum, potato 2858, 6542, 7021, 7979
Triticum 1783, 3387, 3495, 5761, 7755, 7758
Vitis 5436, 5438, 5445, 9182
Zea, maize 6826
Zea, sweet corn 9615
sulphur
Allium, onion 2306
Lolium 7906
Trifolium, red clover 7906
tannin
Castanea 6301
Desmodium 5942
Elaeis 4518
Lespedeza 4425
Lycopersicon 6422
Polygonum 1391
Sorghum 5903–5904, 8775
Theobroma 4503
Vicia, broad bean 3206
terpenoids
Juniperus 708
Larix 10064
Mentha 853
Persea 10000
Picea 1525
Pinus 4639
Pseudotsuga 701
Ulmus 687
Vitis 7327
thiamine
Arachis 9919
Sorghum 9584
Triticum 2581
Zea, maize 9584
thioglucosidase, *Brassica* 1546
thiooxazolidone, *Brassica,* rape 4506
tocopherol, *Zea,* maize 9591
trehalase, *Saccharum* 8943
trans-11-tridecene-3,5,7,9-tetrayne-1,2-diol, *Carthamus* 559
trans-11- tridecene-5,7,9-triyne-1,2-diol, *Carthamus* 1371
tryptophan
Oryza 9675
Zea, maize 2636, 4320, 4968, 4970, 6840, 7587, 9599
tryptophan, technique
cereals 8530
pulses 8530
Secale × *Triticum* 4224

tyrosine ammonia lyase, *Solanum,* potato 9793
valepotriate, *Valeriana* 6176
vicianin, *Vicia,* vetch 5171, 7952
vinyloxazolidinethione, *Brassica,* rape 9002
vitamins
Anethum 8368
Malus 9075

Chemicals, as plant constituents *contd*
vitamins *contd.*
Vitis 3106
Zea, maize 3592

wax
Brassica, turnip 5996
Coffea 3826, 3829
Hordeum 2514
Malus 602, 5357, 7250
Pinus 3138
Secale 3538
Secale × *Triticum* 5725
Sorghum 5029
Triticum 3837
zinc
Cajanus 8365
Zea, maize 4959

Chemicals, cytological effects
acenaphthene, fruit crops 9944
adenosine triphosphate
Hordeum 4099
Pisum 4099
Vicia, broad bean 3203, 8400
alkylating agents, *Triticum* 9334
2-allylamino-4-acetylthiazole, *Triticum* 7548
2-allylamino-4-methyl-5-acetylthiazole, *Triticum* 7548
aminoacids
Allium, onion 38
Triticum 136
aminoethylurone, *Hordeum* 268
5-aminouracils, *Crepis* 893
5-aminouracil
Hordeum 23
Lactuca 23
Vicia, broad bean 6525
amitrole, crop plants 7556
ATP, *Vicia,* broad bean 8400
aurantin, *Crepis* 3285
1,4-bisdiazoacetylbutane, *Hordeum* 5005
2,5-bis-(ethylemeimino)-*p*-benzoquinone, *Vicia,* broad bean 2436
boron, *Cucurbita* 754
5-bromodeoxyuridine, *Vicia,* broad bean 2431
α-bromonaphthalene
Cajanus 1639
Hordeum 1118
2,4-butanesultone, *Secale* 4106
butanol, *Datura* 4533
caffeine
Glycine 3229
Vicia, broad bean 4101–4103
caffeine derivatives, *Vicia,* broad bean 19
calcium, *Oryza* 4379
chelating agents, *Zea,* maize 1855
chloramphenicol, *Vicia,* broad bean 8400
2-chloro-4-ethylamino-6-isopropylamino-s-triazine, *Sorghum* 2726
chlorpropham
Allium 7552
Allium, onion 7552
Hordeum 7552
colchicine
Aegilops × *Triticum* 4228
Allium, minor species 7557
Allium, onion 38, 2433, 7550
Beta 8952
Caragana 9189
Festuca 8819
Gossypium 7996
Hordeum 1118, 4351
Humulus 5296
Lactuca 7405
Lolium 8819
Lycopersicon 5528
Medicago 9727
Ribes 9152
Secale × *Triticum* 4228
Solanum, potato 3733
Trifolium, red clover 7945–7946
Triticum 4228
Vicia, broad bean 20, 28
cycloheximide
Allium, onion 2445
Vicia, broad bean 4771
cysteine
Hordeum 268, 4099
Pisum 4099

Chemicals, cytological effects *contd.*
cytochalasins 883
cytokinins, *Nicotiana* 1334, 7135
2,4-D, crop plants 7556
deoxyadenosine, *Crepis* 885, 885

diepoxybutane
Vicia, broad bean 4768
Vicia, broad bean 4101, 4768
diethyl sulphate, *Lycopersicon* 5528
digitonin, *Allium,* onion 7553
dihydromethyl peroxide, *Vicia,* broad bean 2442
dihydrostreptomycin, *Vicia,* broad bean 5552
dimethyl sulphate, *Triticum* 6725, 7726
2,4-D
Pisum 3282
Vicia, broad bean 6522
endoxan, *Triticum* 2560
esculin, *Allium,* onion 7553
8-ethoxycaffeine, *Hordeum* 1896, 5005
ethyl methanesulphonate
crop plants 7556
Hordeum 1117, 2432, 3620
ethylamine, *Lycopersicon* 1568
ethylenediaminetetracetic acid 3283
ethyleneimine 3283
Aegilops 9442
Brassica, rape 547
Crepis 893
Hordeum 5004
Triticum 9442
p-fluorophenyalanine, *Nicotiana* 889
fungicides, *Hordeum* 2432
gibberellins
Hordeum 4352
Secale 3544
granosan, *Vicia,* broad bean 4027
growth regulators, *Pisum* 7505
herbicides, *Hordeum* 2432
hexachlorocyclohexane, *Allium,* onion 38
hydroxylamine
Hordeum 1117, 4616
Lycopersicon 1568
IAA, *Allium,* minor species 7557
insecticides, *Hordeum* 2432
ionol, *Crepis* 8409
kinetin
Allium, minor species 7557
Allium, onion 4662, 9337
Hordeum 4352
lichen extracts, *Vicia,* broad bean 4026
lycorine
Lactuca 8405
Vicia, broad bean 8405
magnesium, *Oryza* 4379
maleic hydrazide
Aloe 6064
Secale 3544
Vicia, broad bean 3202, 4103
manganese, *Triticum* 9334
mercury, *Allium,* onion 4098
methylmercury dicyandiamide
Tradescantia 21
Vicia, broad bean 21
miscellaneous
Crepis 1672
Glycine 4057
Hordeum 8350
Pisum 8350
Triticum 5739, 7726
Vicia, broad bean 4103
mitomycin C, *Vicia,* broad bean 1674, 3203, 7559, 9333

nitrogen mustard
Allium, minor species 890
Crepis 885
N-nitroso-*N*-ethylurea
Phaseolus 8334
Triticum 6725, 9442
Vicia, broad bean 34
N-nitroso-*N*-methylurea
Triticum 6725
Vicia, broad bean 34
parachloromercuribenzoate, *Allium,* onion 2435
phenols, *Vicia,* broad bean 5621
phytohemagglutinin, *Allium,* onion 7550
plant extracts, *Pisum* 8352
potassium, *Brassica* 4667
1,3-propane sultone, *Triticum* 29

Chemicals, cytological effects *contd.*
sodium, *Brassica* 4667
streptomycin, *Vicia,* broad bean 5552
sulphanilamide, *Allium,* onion 4660
thallium, *Allium,* onion 880
tobacco smoke, *Allium,* onion 3280
treflan, *Vicia,* broad bean 7559
triethanolamine, *Allium,* onion 3286
triethylamine, *Lycopersicon* 5528
veratrine, *Allium,* onion 25
Vicia, broad bean 4101
vincaleucoblastine, *Vicia,* broad bean 2437
water, quasicrystalline, *Hordeum* 269
Chemicals, fertility and sex, effects
abscisic acid, *Cucumis,* cucumber 2324

auxins, *Cucumis,* cucumber 2324
5-bromouracil, *Papaver* 5295
carbon dioxide, *Cucumis,* cucumber 2324
chlorfluorenol, *Cucumis,* cucumber 763

2-chloroethanephosphonic acid
Cucumis, cucumber 2324
Cucumis, melon 5506
Cucurbita 2321
Nephelium, longan 7575
Beta, sugar beet 2907
Citrullus 3983
Cucumis, cucumber 761, 3169, 4152, 4689, 7416, 8297, 10100
Cucumis, melon 3164
Cucurbita 753, 8292
cucurbits 9229
Fragaria 4553
Hordeum 2507
Malus 4553
Nephelium, longan 7575
Rubus, raspberry 4553

Triticum 2507, 2575
Vaccinium 4553
p-chlorophenoxyacetic acid, *Cucumis,* cucumber 763
cytokinins
Lilium 6527
Vitis 1464
2,3-dichloroisobutyrate, sodium, *Beta,* sugar beet 2907, 6086
2,4-dichlorophenoxybutyric acid, crop plants 932
N,N-dimethylsuccinamic acid, *Nephelium,* longan 7575
2,4-D, *Panicum* 9645
ethanol, *Trifolium,* red clover 2813
ethyl hydrogen 1-propylphosphonate, *Cannabis* 2080
ethyl methanesulphonate
Capsicum 7200
Triticum 4227
ethylene, *Cucumis,* cucumber 759, 3169
gametocides
Secale × *Triticum* 8591
Triticum 8591
gibberellins
Allium, onion 10079
Cannabis 8019–8020
Cucumis, cucumber 2324, 4688
Cucurbita 2321, 4688
Luffa 5514
Lycopersicon 3182, 4007
Secale 3544
growth regulators
Citrullus 7411
crop plants 4811
maleic hydrazide
Aloe 6064
Secale 3544
miscellaneous
Cucumis, cucumber 746, 3169
Cucurbita 746
Fragaria 647
Hordeum 3625
Sesamum 1359
morphactins
Capsicum 8119
Sesamum 5308

Chemicals, fertility and sex, effects *contd.*
α-naphthylacetic acid
Cannabis 8020
Cucurbita 755
nitrogen
Cucumis, melon 5505
Spinacia 3975
N-nitroso-*N*-methylurea, *Capsicum* 7200
succinic acid–2,2–dimethylhydrazide, *Cucumis,* melon 1553
1,1,5,5-tetramethyl-3-dimethylaminodithiobiuret
Cucumis, cucumber 4688
Cucurbita 4688
thiamine, *Gossypium* 7992
2,3,5-triiodobenzoic acid, *Cucumis,* cucumber 763, 763
uracil, *Papaver* 5295
Chemicals, general effects
abscisic acid, *Glycine* 7482
actinomycin D
Lactuca 8284
Triticum 117
alar, *Vitis* 5434
aluminium
Phaseolus 6434
Pisum 6472
Triticum 6733
5-bromodeoxyuridine, *Nicotiana* 7139
butanol, *Zea,* maize 240
5-butyl-2-ethylamino-4-hydroxy-6-methylpyrimidine, *Hordeum* 2714
caffeine, *Coffea* 8079
calcium, *Prunus,* cherry 3027
calcium chloride, *Beta,* sugar beet 509
calixine, *Triticum* 3493
carbon dioxide
Lactuca 6375
Lycopersicon 770, 786, 7604
CCC
cereals 91, 91
Daucus 721
Gossypium 4456
Lycopersicon 8506, 9254
Secale 2626, 3389
Solanum, potato 6012, 7017
Triticum 153, 166, 1795, 3389, 3492, 4253, 5745, 7738, 8506, 8602, 8605, 9466
Vitis 6295, 10041
chloramphenicol, *Lactuca* 8284
3-chloro-phenoxy-α-propionic acid amide, *Prunus,* peach 3035
4-chloro -2-methylphenoxyacetic acid, *Hordeum* 2710

2-chloroethanephosphonic acid
Citrullus 3983
Citrus, tangerine 632–633
Cucumis, cucumber 1557
Lactuca 10092
Lycopersicon 3185, 9253
Malus 7244, 9057
Prunus, peach 9134
Pyrus 7244, 9057
Rubus, raspberry 9148
chloroflurenol methyl ester, *Prunus,* peach 4584
2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine, *Glycine* 2377
chorial, *Zea,* maize 5807
colchicine, *Gossypium* 7998
copper, *Agrostis* 367

coumarin, *Lactuca* 8285
3-cyclohexyl-6,7-dihydro-1*H*-cyclopentapyrimidine-2,4-(3*H*, 5*H*)dione, *Fragaria* 4814
cysteine, *Hordeum* 1670
DDT, *Hordeum* 6868
defoliants, *Malus* 6202

dichlofluanide, *Rubus,* raspberry 9149
2,6-dichlorobenzonitrile
Prunus, peach 4586
Vitis 3102
2,3-dichloroisobutyrate, sodium, *Triticum* 6737
N-dimethylaminosuccinamic acid, *Daucus* 721
2,4-D
Saccharum 9843
Triticum 7742

Chemicals, general effects *contd.*
endopolygalacturonase, *Gossypium* 8926
ethyl-*N*-benzoyl-*N*-(3,4-dichlorophenyl)-2-aminopropionate, *Triticum* 1033
ethyl 2-(3-chlorophenylcarbamoyloxy)propionate, *Brassica,* Brussels sprouts 6371
ethyl methanesulphonate
Acer 2279
Hordeum 5865
Oryza 9673
ethylene, *Lycopersicon* 1567
ethyleneimine, *Vicia,* broad bean 3206
fluometuron, *Gossypium* 8466
flurenol butyl ester, *Prunus,* peach 4584
fungicides
Cucumis, melon 4680
Phaseolus 4039
Zea, maize 4179
gibberellins
Allium, onion 2310
Avena 202
Cannabis 8019
Carica 639
Digitaria 2777
Lycopersicon 8506
Oryza 1155, 5685, 5918
Pisum 2455
Prunus, peach 7278
Pyrus 3012
Solanum, potato 6012
Sorghum 5685
Triticum 8506, 9450
Vitis 5434, 6283, 10041
glycine, *Rhizobium* 6973
growth regulators
Acer 2279
Gossypium 1285, 8919
Lycopersicon 8311
Malus 3867, 9949
Nicotiana 528, 8988
Prunus, peach 9135
Solanum, potato 5208
growth regultors, *Malus* 7252

herbicides
crop plants 7644
Cucumis, cucumber 4691
Hordeum 2710, 4814, 9635
Lactuca 6544
Linum 1294
Lupinus 9750
Oryza 4393, 5118
Phaseolus 7493, 9273
Pisum 7374, 7494, 7509, 8356
Prunus, cherry 8167
Prunus, plum 8167
Pyrus 3015
Ribes 5403
Saccharum 2902
Solanum, potato 7023
Sorghum 5905
Triticum 4814, 6540
Vicia, broad bean 7492
Zea, maize 1092, 2656
IAA, *Nicotiana* 1331
indole-3-butyric acid, *Prunus,* apricot 9099
insecticides, *Sorghum* 2730
iodide, potassium
Malus 9057
Pyrus 9057
iron
Oryza 5092
Prunus, almond 9132
Prunus, almond × *Prunus,* peach 9132
Prunus, peach 9132
kinetin
Acer 4109
Lactuca 10092
maleic hydrazide, *Mentha* 6489
manganese
Glycine 3236
Triticum 6733
methyl-3-amino-2,5-dichlorobenzoic acid, *Cucumis,* cucumber 9235
methyl-2-chloro-3-(4-chlorophenyl) propionate, *Avena* 8641
2-methyl -4,6-dinitrophenol, *Hordeum* 2709
2-(1-methylpropyl)-4,6-dinitrophenol, *Cucumis,* cucumber 2325

Chemicals, general effects *contd.*
metobromuron, *Valerianella* 6545
milstem, *Hordeum* 5874
miscellaneous
Elaeis 7177
Rhizobium 1976, 7488
Triticum 5738
Zea, maize 5818, 8711
N-(4-bromophenyl) -*N*-methoxy-*N*-methylurea, *Valerianella* 4814
1-naphthylacetic acid, *Malus* 9079
nitrofen, *Oryza* 5118
nitrogen
Nicotiana 2936
Oryza 345
Trifolium, white clover 5167
N-nitroso-*N*-ethylurea
Fagopyrum 9680
Triticum 9456
N-nitroso-*N*-methylurea
Fagopyrum 9680
Triticum 9456
nucleic acids
Arabidopsis 873
Solanum, potato 7030
ozone
Glycine 1622
Lactuca 7378
Lycopersicon 791, 2342, 6421
Nicotiana 2115, 2937, 3817, 5276, 6126
Pinus 7359
Raphanus 7378
Spinacia 5499
paraquat, *Oryza* 5118
pentachorobenzyl alcohol, *Oryza* 8793
phenol, *Oryza* 5914
potassium iodide
Malus 7244
Pyrus 7244
pronamide, *Fragaria* 6269
propanil, *Oryza* 5118
2-s-butyl-4,6-dinitrophenol, *Glycine* 6464
siduron, *Hordeum* 4998
sodium chloride
Beta, sugar beet 509
Carthamus 1370
Cicer 9312
Cryptomeria 2292
Medicago 6974
Oryza 1163
Populus 5458
Rhizobium 386, 6974
Saccharum 2088
Salix 5458
sodium sulphate, *Saccharum* 2088
streptomycin
Lactuca 8284
Solanum, potato 7033
succinic acid-2,2-dimethylhydrazide, *Malus* 3866
succinic acid–2,2–dimethylhydrazide, *Prunus,* peach 624–625
sugar, *Capsicum* 2175
sulphur dioxide, *Pinus* 7359
tenuazonic acid, *Nicotiana* 7146
2-(4-thiazolyl)benzimidazole, *Medicago* 3704
thiourea, *Solanum,* potato 4438
triallate, *Triticum* 165, 2586
2,4,5-trichlorophenoxpropionic acid, *Malus* 9079
vitamins, *Capsicum* 3848
zinc, *Agrostis* 366

Chemicals, mutagenic effects
adenosine triphosphate, *Hordeum* 9626
8-azaguanine, *Nicotiana* 9332
azide, sodium, *Hordeum* 9625
1,4-bisdiazoacetylbutane, *Triticum* 5735

5-bromodeoxyuridine, *Nicotiana* 9332
butyl methanesulphonate
Oryza 3659
Triticum 135
carbamates, crop plants 7647, 7647
colchicine
Brassica, rape 2133
Fragaria 5411
Lycopersicon 3180, 5528
Morus 6239

Chemicals, mutagenic effects *contd.*
colchicine *contd.*
Pisum 10163
cysteine, *Hordeum* 9626
2,4-D, *Hordeum* 7556
diethyl sulphate
Arachis 3844
Glycine 10143
Hordeum 1894, 2427, 4350, 6870
Lycopersicon 3180, 5528
Oryza 323–324, 1931, 1931, 2739, 3660, 7882
Phaseolus 6433, 10136
Pisum 8349
Sorghum 9654
Triticum 993, 2551, 3311
Zea, maize 1840
1,4-di(methanesulphonoxy)butane, *Oryza* 5917
dimethyl sulphate
Avena 7776
Bromus 7912
Hordeum 5857, 7840
Lathyrus 8877
Lycopersicon 6341, 6411, 9246
Oryza 8787
Pisum 6341, 9304, 10163
Triticum 7724
Zea, maize 7807
ethyl methanesulphonate
Aegilops 7719
Aegilops × *Triticum* 7719
Arachis 3844
Brassica, rape 8089
Cyamopsis 411
Hordeum 1117, 1892, 4348, 4999–5001, 5855, 6569, 6870–6871, 6884, 7556, 7842
Lens 5591
Linum 475, 5231, 6054
Nicotiana 3271
Oryza 323, 1154, 1931, 3659–3660, 5917, 6921, 8786
Phaseolus 8331
Pisum 7501–7502, 8349, 8355
Secale 4272
Sorghum 7875
Triticum 992, 992, 2551–2552, 3447, 3449, 4227, 4227, 7719, 8576
Zea, maize 8690
ethylenediaminetetracetic acid 3283

ethyleneimine 3283
*Brassica,*turnip 5996
Glycine 10143
Hordeum 1670, 1894, 5854, 5856
Lathyrus 8877
medicinal plants 2178
Oryza 325, 3658, 5107
Phaseolus 2361, 7459
Pisum 7503, 10163
Secale 4921
Triticum 1773, 4226, 5730, 5732, 6720
gibberellins
Hordeum 7639
Pisum 7639
hydrazine, *Brassica,*turnip 5996
hydroxylamine
Hordeum 1117, 1117, 8350
Mimulus 7547
insecticides, *Vicia,* broad bean 5623
isopropyl methanesulphonate
Avena 2612, 5002
Hordeum 7839, 7843
maleic hydrazide
Gossypium 459
Zea, maize 5823
methyl methanesulphonate
Hordeum 6871
Oryza 3659
N-methyl-*N*-nitro-*N*-nitrosoguanidine, *Mimulus* 7547
miscellaneous
Arabidopsis 3277
Capsicum 5331
crop plants 928, 5668–5669, 7638
Fagopyrum 3349
Glycine 4057
Gossypium 7065
Helianthus, sunflower 5316
Hevea 9026

Chemicals, mutagenic effects *contd.*
miscellaneous *contd.*
Hordeum 16, 267, 1890, 2696, 3619, 5858, 6667
Linum 3769
Lycopersicon 3178, 4004, 4653
Panicum 5019
Pisum 4653, 5585, 8350
Salmonella 1668
Solanum, potato 2842
Sorghum 298, 2725
Triticum 1772, 2555, 2563, 3445, 3450, 4225, 4859, 5733, 6667, 9436
vegetable crops 716
Zea, maize 5822, 7821
mitomycin C, *Glycine* 10146
nitrosodimethylamine, *Secale* 2620
N-nitrosoguanidine
Zea, maize 8690
Hordeum 5855
N-nitroso-*N*-ethylurea
Bromus 7912
Glycine 10143
Gossypium 3757
Hordeum 4809, 7840, 7848
Lathyrus 8877
Lycopersicon 7431

Papaver 1350
Phaseolus 9269
Pisum 4809, 7502, 9304, 10163
Secale 4921
Solanum, potato 4436
Triticum 2550, 3443–3444, 3444, 5730–5731, 5734, 7721–7722, 7724, 9434, 9508
N-nitroso-*N*-methylurea
Helianthus, sunflower 1363
Lycopersicon 6411
Avena 5791, 7776
Bromus 7912

Helianthus, sunflower 1363
Hordeum 3276, 4999, 6871, 7840, 7848
Linum 6054
Lycopersicon 6410, 9246
Oryza 1153, 5104, 8787
Phaseolus 8329
Pisum 9304–9305
Secale 4272
Triticum 135, 2550, 3447, 5729–5730, 5734–5735, 7721, 7724, 9434, 9508
Zea, maize 7807

nitrous acid, viruses 536
N-nitrosomethylurethane, *Vitis* 6279
organophosphorous compounds, crop plants 7647, 7647
phenols
Vicia, broad bean 5621
Zea, maize 1075
propanil, *Allium,* onion 5622
propyl methanesulphonate
Avena 2612, 5002
Hordeum 7839
radioactive isotopes, *Oryza* 5102
sulphur dioxide, *Tradescantia* 8408
tissue homogenates 4765
triethylamine, *Lycopersicon* 5528
Triticum 4227
Cherry (*see Prunus,* cherry)
Chestnut (*see Castanea*)
Chiasma (*see* Crossing over)
Chickpea (*see Cicer*)
Chicory (*see Cichorium,* chicory)
Chilli (*see Capsicum*)
Chilo
Oryza 344, 1948, 5064, 5068, 7894
Zea, maize 1105
Chimeras 4095
Arabidopsis 1669
Beta, sugar beet 9873
Brassica, kale 6372
crop plants 930
Hevea 9026
Hordeum 6880
Lycopersicon 4003, 4707, 7430
Malus 599–600
Mentha 5596
Olea 2144

Chimeras *contd.*
Secale × *Triticum* 9425
Solanum, potato 2841, 3733, 6006, 6008, 8439
Thuja 6326
Vitis 10035
Zea, maize 8702
Chives (*see Allium,* chives)
Chloris
chromosomes, number 5128
taxonomy 3694, 7922
Chloroplasts 3, 3272, 4757
Avena 8638
Beta 7109
Brassica 4668
Citrullus 8291
crop plants 8393
Glycine 4735
Gossypium 1278
Helianthus, sunflower 1363
Lycopersicon 784, 4003
Nicotiana 3271, 3809, 4491, 7138
Pelargonium 2423
Zea, maize 1073, 8917
Chloroplasts, number, *Pisum* 7499
Chloroplasts, size, *Pisum* 7499
Chlorops, *Triticum* 7772
Chondrilla, apomixis 9028
Chromatin (*see* Chemicals, as plant constituents; Nucleus)

Chromosomes, aberrations 2442, 4660, 7545, 8396
Aegilops 9442
Allium, minor species 884, 890
Allium, onion 880, 2308, 3280, 3286, 4662, 5622
Aloe 6064
Brassica, rape 547, 5619
Capsicum 9928
Citrullus 8290
Crepis 885, 893, 1672, 3285, 9335
crop plants 2488, 4100, 7556

Datura 4533
forest trees 4631
Hordeum 268–269, 1750, 2432, 2505, 3620, 4099, 4351–4352, 4616, 4999, 5004–5006, 5670, 5860, 6873–6874, 7839, 7844, 8747, 9627
hydroxylamine, *Hordeum* 1117
Lens 848
Lotus 3716
Lycopersicon 1568, 3180, 4705, 5528–5529, 7434, 9336
Medicago , 7934
Mentha 3253
Nicotiana 4492
Oryza 5916
Phaseolus 8334, 10136
Pisum 886, 888, 1675, 2385, 4099, 4773, 5670, 8352
Rubus, raspberry 4602
Secale 1054, 3544, 4106, 4273, 4925
Solanum, potato 5202, 7010
Sorghum 2726
Themeda 1952
Tradescantia 21, 8408
Trifolium, minor species × *Trifolium,* red clover 1197
Triticum 29, 136, 1750, 1775–1776, 2505, 2560, 3433, 3439, 5670, 5732, 5738–5739, 6702, 6724–6725, 7726, 9334, 9442–9443

Vicia, broad bean 21, 34, 1674, 2431, 2436, 3202–3203, 4101, 4103, 4768, 5552, 5621, 5623, 5670, 6522, 6524, 7559, 8400
Vitis 5429
Zea, maize 1850, 1852, 2638, 4314, 7810
Chromosomes, accessory 4772
Aegilops 2608
Aegilops × *Triticum* 3422
Agropyron × *Triticum* 4845
Dactylis 6947
Eleusine 9649
Festuca × *Lolium* 1964
forest trees 3119
Iseilema 6959
Lolium 1964

Chromosomes, accessory *contd.*
Pennisetum 6898
Picea 5474
Rumex 4023
Secale 1823, 9441
Sequoia 7367
Triticum 9441
Zea, maize 1853, 8698
Chromosomes, breakage 887, 7543, 8404
Elymus 2783
Nicotiana 2110
Vicia, broad bean 19
Chromosomes, fragments (*see* Aneuploidy)
Chromosomes, maps (*see* Linkage)
Chromosomes, morphology 2451, 5617
Agropyron 8831
Allium, chives 4661
Allium, garlic 2311, 4661
Allium, minor species 1542, 3962, 6356
Allium, onion 4661
Apluda 8832
Bromus 7913
Chrysanthemum 7212
Cocos 6243
Corchorus 8028
Cucumis, cucumber 758
Cupressus 5484
Dolichos 804
Elymus 2782
fibre plants 2051
forest trees 3119, 4632
Glycine 1610
Helianthus, sunflower 2981, 7172
Hordeum 5852
Hordeum × *Triticum* 5682
Lycopersicon 6412
Manihot 1326
Medicago 2799–2801, 5966
Nicotiana 8460, 8985, 9889
Papaver 9896
Pennisetum 6897
Phaseolus 30, 804, 7461, 8399, 10137
Picea 4632, 4645, 7363
Pinus 3945, 4632, 4638, 6322
Pisum 1630
Poa 2762
Prunus, peach 3034
Pseudotsuga 4632
Rhoeo 5624
Rumex 801
Secale 2622, 3545, 7782
Secale × *Triticum* 2622, 5721
Sequoia 7367
Solanum 7308
Sorghum 8769
Thea 3822
Theobroma 2965
Thespesia 2051
Trifolium 2823
Trifolium, minor species 1997, 2822
Triticum 138–139, 3453, 3455, 7725, 7729–7730
vegetable crops 3955
Vicia, broad bean 4769, 7560
Vigna 804
Vitis 6281
Zea, maize 2657, 4953, 8697
Zingiber 2177
Chromosomes, morphology, technique 2434, 5618
Allium, onion 4104
Hordeum 1118
Lycopersicon 1569
Secale 1053
Vicia, broad bean 6523
Zea, maize 24
Chromosomes, number 2051, 2761
Agropyron 5945
Allium, chives 730
Allium, garlic 7391
Allium, minor species 1542, 3962
Alopecurus 2785
Artocarpus 10022
Bambusa 4168
Betula 1506
Bromus 5128
Cajanus 7518
Calamagrostis 2430
Cardamine 2430
Cedrela 6312
Cenchrus 1171, 6940
Chloris 5128
Citrullus 10094

Chromosomes, number *contd.*
Citrus 7574
Coffea 5284
Crambe 9922
Cucumis, cucumber 10100
Cucumis, melon 10100
Deschampsia 2430
Digitalis 65
Digitaria 4168, 5128, 5939, 6940, 6957
Dolichos 804
Echinochloa 2719
Festuca 892, 2430, 2430, 2775
fibre plants 2051
forest trees 677, 3119, 4631–4632, 6310–6311, 8246
Fragaria 7301
Glycine 6463
grasses 354, 1951, 5128, 5945
Hemarthria 1973
Hibiscus 5234
Ipomoea 7045
Lathyrus 383
leguminous forage crops 2787
Liquidambar 678
Lotus 1225, 6991
Maclurolyra 9713
Mentha 2399–2400, 6490
Musa 4168
Nicotiana 2111, 8985
Ocimum 4750
Onobrychis 65
Panicum 4168
Papaver 1351, 9896
Paspalum 6940
Pennisetum 286
Phaseolus 804
Physalis 1455
Picea 4632
Pinus 4632
Poa 362, 892, 2430, 4810, 7908
Prunus, cherry 2212
Pseudotsuga 4632
Psidium 7287
Rheum 3976
Rubus 4810
Saccharum 491
Salix 2430
Setaria 5128
Solanum, potato 4434, 7011
Spartium 383
Swietenia 6312
Tetragonolobus 383
Themeda 1952
Toona 6312
Trifolium 892, 2811, 2823, 8459
Trifolium, minor species 1997, 2822
Triticum 2537
Valeriana 2430
Vigna 804
Zingiber 7204
Zingiberaceae 2177
Chromosomes, number, technique
Beta 6081
Cajanus 1639
Secale 3543
Chromosomes, pairing (*see* Meiosis)
Chromosomes, sex (*see* Sex chromosomes)
Chromosomes, substitution
Aegilops × *Triticum* 2547, 2556, 2607, 3430
Agropyron 3693
Agropyron × *Triticum* 4411
Secale 137
Secale × *Triticum* 137

Triticum 137, 2558, 3477, 3693, 7731, 9416
Chrysanthemum
breeding, Kenya 5638
chemicals, as plant constituents, pyrethrins 5638
chromosomes, morphology 7212
polyploidy 7212
varieties, Kenya 5638
Cicer
adaptability 7515
Ascochyta 4086, 7516
physiological races 7517
Callosobruchus 1637
chemicals, as plant constituents, homoserine 9263
chemicals, general effects, sodium chloride 9312

Cicer *contd.*
genetics
seed, colour 3250
sterility and fertility 2394
yield components 844, 6481
germination 9312
heritability 6482–6483
light, effect of 845
longevity 2351
mutation 2394
pathology 2349
photoperiodism 845
photosynthesis 4084
plant collections 7516
quality, for nutrition 4085
Rhizobium, physiological races 846
salinity 9312
seed, colour 3250
sterility and fertility 2394
taxonomy 6963
variation 3349
varieties
India 2392–2393
Mexico 8358–8359
Tajik SSR 10128
yield components 844, 6481–6483, 7514–7515
***Cichorium,* chicory**
Alternaria 6330
breeding, Netherlands 7407
development and growth 8288
genetics
Alternaria 6330
development and growth 8288
hybrid varieties 4679
polyploidy 5502
sterility, self 9195
variety trials
Belgium 4679
Yugoslavia 8287
***Cichorium,* chicory** × ***Cichorium,* endive,** hybridization, interspecific 6330
***Cichorium,* endive**
breeding
France 5503
Italy 6330, 9195
hybrid varieties 5503
variety trials, UK 2293
***Cichorium,* endive** × ***Cichorium,* chicory,** hybridization, interspecific 6330
Cider, quality (*see* Quality, of cider)
Citrullus
asynapsis 6384
Aulacophora 1552
chemicals, as plant constituents
cucurbitacin 1552
sugar 3984
chemicals, fertility and sex, effects
2-chloroethanephosphonic acid 3983
growth regulators 7411
chemicals, general effects, 2-chloroethanephosphonic acid 3983
chloroplasts 8291
chromosomes, aberrations 8290
chromosomes, number 10094
Erysiphe 1551
Fusarium 4684, 5508, 6591
γ rays 6384
genetics, height 7412
glass and plastic, cultivation under 6380
growth period 6380, 6383, 8462
habit 3983, 8462
height 7412
heterosis 6383
history and evolution 5507
hybrid varieties 5659
meiosis 8290
mutation, induced 6384
polyploidy 4682, 6385, 8290–8291
quality, for nutrition 3984
quality, of edible product 6380
sex 3983
sterility and fertility 4683, 6384–6385, 8290
stomata 8291
taxonomy 10094
translocation 4683
varieties, India 2320
variety trials
Colombia 3165
Rumania 6382
USA 6381
vivipary 752

Citrus
breeding, Italy 9138
chemicals, as nutrients, miscellaneous 631
chemicals, as plant constituents, miscellaneous 7283
chromosomes, number 7574
cold resistance 5384, 9987, 9989
collar rot 1420
Diplodia 3039
embryo culture 5383
embryo sac 6237
embryology 630
genetics, spines 3037
Glomerella 1421
hybridization 3037
hybridization, interspecific 5382, 5384, 7574, 9143, 9989
leaf 7574
leaf, shape 8184
mutation 9139
mutation, induced 9986
Phyllocnistis 2223
Phytophthora 3039
plant collections 3038
polyembryony and twinning 4590, 5383
polyploidy 630, 5384, 9139
quality, of edible product 3894
radiation 9986
rootstock 3039
spines 3037
sterility, self 9143
tissue culture 5383
Tylenchulus 2224, 7284
viruses 2225, 3895
Xanthomonas 2223, 9140
***Citrus,* grapefruit**
chemicals, as plant constituents, hydrocarbons 634
varieties, Colombia 3041
***Citrus,* grapefruit** × ***Citrus,* orange**
hybridization, interspecific 629, 7282
meiosis 7282
***Citrus,* grapefruit** × ***Citrus,* pomelo** 3038
cold resistance 3038
heterosis 2226
hybridization, interspecific 2226, 3038
***Citrus,* lemon**
breeding, Italy 5387, 5389
chemicals, as plant constituents, hydrocarbons 1422
cold resistance 9142
heat and drought resistance 9990
photosynthesis 9990

varieties, USA 4546
water balance 9990
***Citrus,* lemon** × ***Poncirus,* hybridization, intergeneric 5384

***Citrus,* lime,** chemicals, as plant constituents, hydrocarbons 635
***Citrus,* mandarin**
chemicals, as plant constituents, chorophyll 4591
embryology 2222
γ rays 5386
germination 5386
polyembryony and twinning 5386
quality, for storage 7285
temperature, effect of 7285
varieties, Colombia 3896
***Citrus,* mandarin** × ***Citrus,* pomelo**
heterosis 2226
hybridization, interspecific 2226
***Citrus,* orange**
chemicals, as plant constituents hydrocarbons 5385
pectin 9988
embryology 2222
Phytophthora 8185
pollination 9141
sterility, female 2222
varieties, Tunisia 6192
***Citrus,* orange** × ***Citrus,* grapefruit,** hybridization, interspecific 629, 7282
***Citrus,* orange** × ***Citrus,* pomelo**
heterosis 2226
hybridization, interspecific 2226
***Citrus,* orange** × ***Poncirus,* hybridization, intergeneric 8150

Citrus, **pomelo** × *Citrus,* **grapefruit,**
hybridization, interspecific 2226, 3038
Citrus, **pomelo** × *Citrus,* **mandarin,**
hybridization, interspecific 2226
Citrus, **pomelo** × *Citrus,* **orange,**
hybridization, interspecific 2226
Citrus, **pomelo** × *Poncirus*
heterosis 2226
hybridization, intergeneric 2226
Citrus × *Poncirus*
hybridization, intergeneric 3040, 3893, 5382
Phytophthora 3040
Citrus, **tangerine**
chemicals, general effects, 2-chloroethanephosphonic acid 632–633
fruit 632
fruit, colour 633
leaf fall 632
Cladosporium
genetics 4018
Lycopersicon 1537, 3172, 3175, 4017, 5536, 6398
physiological races 4018, 4175
Classification (*see* Taxonomy; Varieties, classification)
Clasterosporium
Prunus, apricot 5367
Prunus, peach 4588
Claviceps
chemicals, as plant constituents
alkaloids 3254, 4751
fatty acids 3254
genetics, alkaloids 4751
Pennisetum 1753, 5884
reproduction 4751
Sorghum 1753
Triticum 1797, 5777
Climate
Avena 2614
Beta, sugar beet 4476, 8957
Fragaria 9045
fruit crops 3000
Glycine 1620–1621, 5582
Hordeum 8761
Lens 5590
Malus 3008
Pennisetum 288
Phaseolus 813
Pisum 3244
Prunus, peach 3036
Solanum, potato 8884
stone fruits 4573
Triticum 964
Vicia, vetch 1209, 8863
Zea, maize 3562, 4142
Clines
Avena 4266
Eucalyptus 3943
Lotus 2002
Trifolium, red clover 7943
Clitoria, variety trials, Cuba 1227
Clover (*see Trifolium*)
Clover, Alsike (*see Trifolium,* Alsike clover)
Clover, crimson (*see Trifolium,* crimson clover)
Clover, minor species (*see Trifolium,* minor species)
Clover, red (*see Trifolium,* red clover)
Clover, subterranean (*see Trifolium,* subterranean clover)
Clover, sweet (*see Melilotus*)
Clover, white (*see Trifolium,* white clover)
Cnaphalocrocis, Oryza 2754, 7896
Cob (*see Corylus*)
Coccinia
polyploidy 7421
sex chromosomes 7421
Coccomyces, Prunus, cherry 9126
Cochliobolus
Avena 6674, 8511
cereals 4822
chemicals, as nutrients
acids 8726
carbohydrates 8726
colour 250
cytoplasmic inheritance 4822
linkage 250
mutation 250, 2662
Oryza 312, 340, 1164
sex 6852
Sorghum, physiological races 1920
Cochliobolus contd.
Triticum 170, 175, 1039, 1801, 3315, 3510, 5773, 6686, 7759, 8623, 8626
Zea, maize 237, 248–250, 258, 1098–1099, 1877–1878, 1920, 2493, 2660–2662, 2664, 2667, 3603, 3605–3606, 4326, 4328, 4982–4983, 6674, 8511, 8721, 8724, 9553, 9609
physiological races 1879–1880, 3602, 4330–4331, 4984, 6850, 6852, 8726
physiological races, technique 4981
Cochliobolus, **technique,** *Triticum* 4899
Cocksfoot (*see Dactylis*)
Cocoa (*see Theobroma*)
Coconut (*see Cocos*)
Cocos
breeding
India 1427–1428, 3042, 9145
Jamaica 7291
Sri Lanka 636, 3901
chemicals, as plant constituents
aminoacids 3045
auxins 3044
oil, fatty 637
chromosomes, morphology 6243
fruit 4595
genetics
aminoacids 3045
auxins 3044
heterosis 636, 1427, 8188
hybridization 1430, 5396
hybridization, technique 1429, 4596
inflorescence 6243
leaf 3042
lethal yellowing 7292
pathology 1431
pollination, technique 4596, 7291
prepotency 8188
seed production 4596–4597, 8188
selection, artificial 4595
sex 6243
varieties 3043
variety trials, Jamaica 3043
viruses 638, 1432, 3043, 5398
yield components 5397
Coffea
breeding 2956
El Salvador 3824
Ceratocystis. 2961
Ceratocystis 5287, 7155
chemicals, as plant constituents
caffeine 2957, 8079
flavonoids 5287
glycosides 7155
niacin 2958
oil, fatty 6135
phenols 5287
wax 3826, 3829
chemicals, general effects, caffeine 8079
chromosomes, number 5284
Colletotrichum 3826
development and growth 8079
embryo culture 8079
Fusarium 6579
genetics
Ceratocystis 2961
growth period 8078
Hemileia 1346, 3828
genome analysis 6133
Glomerella 3829
physiological races 541
growth period 8078
heat and drought resistance 2960, 8083
Hemileia 2962, 3827, 5283, 5286, 8080
physiological races 1345–1346, 2122, 3828, 7154
history and evolution 539
hybridization, interspecific 2956, 2962, 3828, 4499, 5285, 6133, 7154
leaf, anatomy 5285
light, effect of 8077
Meloidogyne 2466
photosynthesis 3825
polyploidy 2962, 6134
polyploidy, technique 7153
quality, of edible product 6135
sterility and fertility 4499
taxonomy 540, 2959, 5285
variety trials
Kenya 5283, 8076
Nigeria 6137
Puerto Rico 8077
Coffee (*see Coffea*)
Coix, immunology 4949
Coix × *Zea,* **maize,** hybridization, intergeneric 4949
Cola
diallel analysis 6139
pollination 8084
sex 8084
sterility and fertility 6139
variety trials, Nigeria 8084
Cold, effect of (*see also* Temperature, effect of; Vernalization)
Agropyron × *Triticum* 8607
Avena 6670
Beta, sugar beet 6104
Brassica 3965
Coronilla 3719
Ephedra 579
Eucalyptus 2277
Fragaria 2244, 3064
fruit crops 3000
Glycine 4737
Gossypium 7998
grasses 8806
Hordeum 5004, 6670
Lycopersicon 4006, 4154
Malus 3008, 3120
Medicago 9730
Nicotiana 6117
Oryza 2753, 5077, 5079, 5110, 5907
Oyrza 5077
Prunus, almond 6304
Prunus, apricot 9098
Prunus, peach 2218, 3036, 8183
Solanum, potato 8895
Triticum 124, 1007, 7735, 7758, 8575, 8608
Ustilago 1666
Vicia, broad bean 5616
Vitis 3923, 6294
Zea, maize 3583, 4315, 7808
Cold resistance
Agropyron × *Triticum* 7711
Avena 9526
Brassica, rape 6565, 9910
Citrus 5384, 9987, 9989
Citrus, grapefruit × *Citrus,* pomelo 3038
Citrus, lemon 9142
Corylus 670
crop plants 4170
Cucumis, cucumber 6392
Cydonia 9093–9094
Dactylis 1174
Digitaria 2778–2779
Eucalyptus 2277, 3943
Fagopyrum 9682
Fragaria 8200, 9164
fruit crops 4554
grasses 5946
Hordeum 1126, 1904, 2711, 4357, 4995, 7858, 8758
Ipomoea 9797
Larix 700, 5479
Linum 2071, 8012
Lolium 4121, 8823
Lycopersicon 4711–4712
Malus 592, 2194, 3860, 3868, 4564, 4566, 5348, 6204, 8148, 9080–9081, 9946, 9953–9954, 9956–9959
Medicago 1981, 4122, 6972, 9730
Olea 4520
Oryza 5078–5080, 5116, 5928, 6621, 6928
Phaseolus 6439
Pisum 1635, 4741, 4745, 9310
Poa 4121
Populus 1501
Prunus, almond 3935, 7243
Prunus, almond × *Prunus,* peach 8182
Prunus, apricot 3880, 7243, 9098, 9970
Prunus, apricot × *Prunus,* plum 8166
Prunus, cherry 1416–1417, 3023, 8177, 9123, 9125, 9976, 9982–9983
Prunus, peach 627, 3031, 4587, 6228, 6232, 7243, 7281
Prunus, plum 1413, 1416, 9101, 9110
Pyrus 6207, 9088
Quercus 3939
Ribes, black currant 3054, 6184
Ribes, red currant 3054
Rubus, raspberry 3053

Cold resistance *contd.*
Saccharum 493, 7108
Secale 950, 3387, 3534
Secale × *Rriticum* 8557
Secale × *Triticum* 1796, 7711, 7757, 8558, 8573
Solanum, potato 1244, 7972, 8895

Trifolium, red clover 4420, 5975, 5977
Triticum 950, 962, 1006, 1035, 2519, 2544, 2589, 3349, 3387, 3495–3496, 3499, 3501–3504, 3506, 4198, 4240, 4248, 4251–4252, 4829, 4891, 4893–4894, 5714, 6741, 6766, 7735, 7755, 7757–7758, 8605, 8608, 8620, 9488, 9490, 9494, 9497–9498
Vaccinium 3059
Vicia, broad bean 2353
Vigna 6446
Vitis 668, 1467, 2263, 5432, 5442–5444, 6296, 8224–8225, 9184, 10044–10045
Zea, maize 1093–1094, 1097, 2658–2659, 3599–3600, 4977, 5841, 6798, 6845–6846, 7827, 9603
Cold resistance, technique
Agropyron × *Triticum* 8607
Hordeum 5014
Malus 9955
Phaseolus 2365
Solanum, potato 433
Triticum 168, 3500, 7756, 8621
Vicia, vetch 9745
Vitis 3910, 9183
Zea, maize 247, 7819, 8720
Coleophora,* *Larix 5479–5480
Collar rot, *Citrus* 1420
Collections, plant (*see* Plant collections)
Colletotrichum (*see also Glomerella, Physalospora*)
Capsicum 2175
chemicals, as plant constituents, endopolygalacturonase 3218
Coffea 3826
Dioscorea 8051
Eleusine 289
Fragaria 3906
physiological races 3065
Hibiscus 2046–2047
physiological races 5236
Lycopersicon 1582
Manihot 2909
Phaseolus 4721
physiological races 1538, 1600, 2368, 3218, 4042, 4729, 5565
Sorghum 303, 305, 6909, 9662
Colocasia
growth period 5263
quality, of edible product 5263
variety trials, Fiji 5263
viruses 2098

Colour
Allium, onion 6352, 7388, 10081
Bromus 9698
Cajanus 3252
Capsicum 4530
Chamaecyparis 702
Cochliobolus 250
Corchorus 2891, 8939
crop plants 8503
Cryptomeria 703
Fragaria 4608, 8199
Glycine 5574
Gossypium 9809
Helianthus, sunflower 7173
Linum 5231
Lycopersicon 3999, 6417

Medicago 5150, 5152
Oryza 7881
Panicum 9646
Phaseolus 810
Pinus 692
Puccinia 2986
Secale 4272
Solanum, potato 2016
Trifolium, crimson clover 402
Triticum 5735
Vicia, broad bean 3201
Zea, maize 1073–1074, 1840, 1846, 4307, 9559
Colza (*see Brassica,* rape)

Combining ability 2426, 2761, 3358, 6502
Avena 9522
Beta, sugar beet 2906, 3796, 5251, 9856
Brassica, oil crops 6148, 9904
Bromus 1960, 6951, 8813
Capsicum 9019
Corchorus 6061
Cucumis, cucumber 6331
Cucumis, melon 750
Dactylis 9694
Fragaria 8196
Gossypium 456, 1265, 1284, 2061, 8915–8916
Helianthus, sunflower 6156
Hordeum 2685, 6869, 9622
Humulus 9899
Linum 1290, 9831
Lolium 3682, 4407
Lotus 2828
Lycopersicon 5520–5522, 5526, 8305, 9197
Medicago 1984, 2796, 3699, 7930, 7932, 8843
Nicotiana 3817
Pennisetum 1909, 5882
Pisum 10171
Ricinus 2977, 7168
Secale 3539
Secale × *Triticum* 7718
Solanum, potato 2840, 3743, 7970
Sorghum 1910, 1918, 3639, 5642, 5893, 6904, 7871–7872, 7874
Trifolium, minor species 5979
Triticum 121, 967, 1011, 2417, 4884, 5709–5711, 5713, 5719, 6698, 7697, 7699
Vigna 1602
Vitis 6277

Zea, maize 2633, 3557, 3578, 3581, 4308, 4929, 4945, 5817, 5829, 6807, 6812, 7591, 8663, 8666–8667, 8674–8676, 8678, 8686, 8705
Zea, sweet corn 1882
Combining ability, technique
crop plants 4759
Zea, maize 8680
Compatibility (*see* Sterility and fertility)
Competition 6531
Arachis 5323
Avena 1050, 9525
Beta, sugar beet 512, 4816, 7109
cereals 1745
crop plants 2492, 4816, 6658
Glycine 4063, 10150
Hordeum 276, 7856, 8741
Lolium 1182, 4406, 5978
Oryza 1941
Phaseolus 3222
Sesamum 5310
Trifolium, white clover 2817, 5978
Triticum 6763
Zea, maize 1873, 4329
Complementary genes (*see* Multiple genes)
Complex loci, *Zea,* maize 4307
Computer simulation 1, 42, 1653, 1659, 2424, 3257, 3267–3268, 4763, 6500, 6503–6504, 6536
Cone, *Pinus* 5469
Cone, colour
Pinus 5468, 6323
Pseudotsuga 2290
Cone, size, *Pinus* 3135, 6323
Conserving quality (*see* Quality, for conserving)
Contarinia, Sorghum 310, 925
Cooking quality (*see* Quality, for cooking)
Corchorus
aneuploidy 2891
Apion 6062
bark 6062
chemicals, as nutrients, miscellaneous 6061
chromosomes, morphology 8028
colour 2891, 8939
combining ability 6061
γ rays 6062
genetics
colour 8939
seed, colour 7100
shedding 7100
yield components 1297

Corchorus *contd.*
height 1297
heritability 483
heterosis 1297
hybridization 8938
hybridization, interspecific 482, 2891
Macrophomina, physiological races 484
meiosis 2891
mutation, induced 6062, 9838
pollination 8938
population genetics 8938
quality, of fibre 3772
seed, colour 7100
selection, artificial 483
shedding 7100
sowing and planting date 6063
stem 6062
varieties, India 1256, 6060
X rays 9838
yield components 483, 1297
Coriander (*see Coriandrum*)
Coriandrum
breeding, USSR 1643, 2401
Fusarium 5599
heritability 1647
mixtures of crops or genotypes 1644
polyploidy 8111
Protomyces 857
sex 7521
variation 1644
yield components 1647
Cork, *Malus* 4565
Corn (*see* Cereals; *Hordeum; Triticum; Zea,* maize)
Cornus
plant collections 10017
varieties, classification 10017
Corolla
Brassica, cabbage 4669
Cajanus 8363
Capsicum 9023
Prunus, peach 2217
Solanum, potato 9776
Corolla, colour
Cajanus 4749, 8361, 8364
Hypericum 5626
Jasminum 5626
Coronilla
cold, effect of 3719
flowering 3719
quality, for nutrition 9752
Corticium
Arachis 7194
Beta, sugar beet 3795, 7125, 8964, 9854
Oryza 1944, 5058
Phaseolus 815, 5944
physiological races 3220
Solanum, potato 438, 2033
Theobroma 3298
Triticum 171
Corylus
cold resistance 670
development and growth 670
fruit 8235
genetics 8235
hybridization, interspecific 8235
leaf 8235
pollination 7332
sterility, self 7332
varieties
Italy 3934
USA 8240
yield components 7333
Corynebacterium
Lycopersicon 2330, 3191, 7427
physiological races 3190
Medicago 394, 5970, 8423, 9721
Phaseolus 2366

Zea, maize 4979
***Corynebacterium,* technique,** *Medicago* 395, 4417
Cosmic rays 7543
Cotton (*see Gossypium*)
Cotyledon cracking, *Phaseolus* 4728
Couch (*see Agropyron*)
Cowpea (*see Vigna*)
Crambe
chromosomes, number 9922
genetics, hairs 9922
hairs 9922
hybridization, interspecific 9922
pollination 9922

Crambe contd.
taxonomy 9922
variety trials, USSR 7195
Cranberry (*see Oxycoccus*)
Crepis
cell division 1671, 7551
chemicals, as plant constituents, chromatin 7551
chemicals, cytological effects
5-aminouracils 893
aurantin 3285
deoxyadenosine 885, 885
ethyleneimine 893
ionol 8409
miscellaneous 1672
nitrogen mustard 885
chromosomes, aberrations 885, 893, 1672, 3285, 9335
neutrons 9335
polyploidy 8409
X rays 885, 885, 3285
Cress, bitter (*see Cardamine*)
Cress, water (*see Nasturtium*)
Crimson clover (*see Trifolium,* crimson clover)
Cronartium
Pinus 691, 3947, 10057, 10062
Quercus 10057
Crop plants 1676
anatomy 66
anther culture 2456, 7554
Apis 69
apomixis 9378
bacteria 939
botany 10177
breeding 48, 917, 1698, 1703, 3350, 4165, 5631, 6648, 6650, 7617, 8479, 9367
Algeria 57
Argentina 4143
Armenian SSR 6638
Australia 2484, 4786, 6586, 7608, 9366
Austria 915, 3310, 9361
Azerbaijan SSR 6632
Bulgaria 4824, 7623
Burundi 5602
Canada 2482, 6581
Czechoslovakia 6624, 8419, 8501
Denmark 4157
Estonian SSR 6640
Ethiopia 5602
Fiji 2470
France 1699, 4790
Georgian SSR 6631
German Federal Republic 51, 4180, 6644, 8435
Ghana 4785
India 4801, 7618
Irish Republic 6596, 8473
Italy 5645, 7577
Kazakh SSR 6630
Kenya 5602, 5635
Kirgiz SSR 6636
Latvian SSR 6635
Lithuanian SSR 6633
Malawi 5602
Moldavian SSR 6634
Netherlands 1708
New Zealand 7609
Nigeria 3347–3348
Poland 907, 7622, 7624, 8476
Portuguese East Africa 5602
Portuguese West Africa 3322
Rumania 3355, 9319
Rwanda 5602
Sabah 5629
Surinam 2473
Sweden 912, 1707, 4116, 4799, 6642, 6651–6652, 9360–9361
Tanzania 5602
Turkmenian SSR 6639
Uganda 5602
UK 1700, 4796, 6567, 9359
Ukrainian SSR 910–911, 6627
USA 914, 1705, 5603, 6660, 8455
USSR 47, 53, 859, 918, 1701–1702, 3349, 3351, 3354, 4162, 4792, 4800, 5657–5658, 5663, 6623, 7615–7616, 8475, 8477–8478, 8484, 9365
Uzbek SSR 6629
White Russian SSR 6628, 7620
Yugoslavia 58, 3353
Crop plants *contd.*
breeding *contd.*
Zambia 6559
breeding, technique 6641, 8485, 9362
centres of origin 908, 5672–5673
chemicals, as nutrients
calcium 9383
phosphorus 9383
chemicals, as plant constituents
chlorophyll 8503
cytochrome c 45, 4115, 8509
enzymes 8505
histone 9376
lysine, technique 8508
miscellaneous 1736
nitrogen 5671
nucleic acids 3150, 4100, 8393
phenols 897
phytoalexins 2495
potassium 5671
protein 1732, 4100, 4793
chemicals, cytological effects
amitrole 7556
2,4-D 7556
ethyl methanesulphonate 7556
chemicals, fertility and sex, effects
2,4-dichlorophenoxybutyric acid 932
growth regulators 4811
chemicals, general effects, herbicides 7644
chemicals, mutagenic effects
carbamates 7647, 7647
miscellaneous 928, 4764, 5668–5669, 7638
organophosphorous compounds 7647, 7647
radioactive isotopes 4764
chimeras 930
chloroplasts 8393
chromosomes, aberrations 2488, 4100, 7556
cold resistance 4170
colour 8503
combining ability, technique 4759
competition 2492, 4816, 6658
cytoplasmic inheritance 8393, 8500
development and growth 6529, 9376
embryo culture 4111
environment, technique 7643
evolution, general theory 940
experimental designs 4794, 4803, 6649, 8480
fungi 73, 940, 9384
physiological races 5677
genetics 11, 8394
fungi 940
pathology 74–75, 1737, 5676
physiology 2487
sterility and fertility 1731, 7651
genotype × environmental interaction 6656
genotype × environmental interaction, technique 7637, 8499
germination, technique 67
growth period 8504
growth period, technique 9377
haploidy 2456, 8397
haploidy, technique 7554
heat and drought resistance 5675
heritability 2486
heterosis 3357
history and evolution 935, 3362–3363, 4170–4171, 4807, 5672, 7646, 9341, 9382, 10177
hybrid varieties 72, 4808
hybridization 8501
hybridization, intergeneric 4807
hybridization, interspecific 4807
hybridization, wide 3359–3360
immunology 938
inbreeding 6498
insects 943, 2500–2501, 4818, 7662
legislation 909, 6598, 8479, 8482–8483, 8490–8491

Meloidogyne, physiological races 1742
mitochondria 931, 8393, 9376
mixtures of crops or genotypes 6658
morphology 9341
mutation 1726, 4170, 8503
mutation, induced 928–930, 1727, 1729, 4100, 4764, 5664, 5668–5669, 7638, 8502
Crop plants *contd.*
nectar 68
nematodes 1741
Ozonium, physiological races 1740
pathology 74–75, 897, 936–938, 1705, 1735–1738, 2493, 2495–2496, 3365, 4180, 5673–5674, 5676, 6660–6662, 7226, 7659–7660, 8373, 8500, 8512–8514, 8523–8525
perennial habit 3350
physiology 2487, 7640
Phytophthora 2498–2499
physiological races 4181
plant collections 47, 54, 56, 58–62, 908, 913, 916, 1704, 1706, 2483, 3352, 4141, 4162–4164, 4806, 5657, 5660–5661, 6645–6646, 7619, 8481
plant introduction 49–50, 52, 3347, 4166, 4798, 6647
pollen 1725, 2489, 4812
pollination 68–69
polyploidy 66, 2006, 4169, 5625, 6498, 9376
population genetics 6498, 7660
protoplast fusion 1725, 2405, 2456
quality, for nutrition 51, 1734, 4793
quality, for nutrition, technique 1699
radiation 1729, 5664, 8502
respiration 7644
Rhizoctonia 76
root 66
seed 6657
seed production 72, 4815, 6650, 6659
selection, artificial 5612, 7610, 8485, 9364
sex 7562, 7651
spiral habit 5625
spring and winter habit 4170
statistics 2492
sterility and fertility 1731, 7651
sterility, male 932, 1730, 3357, 4808, 9379
sterility, male, cytoplasmic 931, 2489, 8507
sterility, self 9338
stomata, number 8504
synthetic varieties 8485
taxonomy 3150, 9347
temperature, effect of 8503
tissue culture 1677, 2405
transformation 4805
translocation 2488
Uredinales 941
variation 927, 4816
varieties 8490–8491
Austria 3313
Bulgaria 2485, 4752
Canada 921
Denmark 9369
Rumania 7628
USA 8483
varieties, classification 927, 2490
varieties, classification, technique 8505
variety trials 8469
Argentina 3292
Australia 6586, 7608
Austria 3308, 4167
Brazil 3296
Burundi 8474
Canada 2479
Cyprus 6601
Fiji 2470
Hungary 7625
Irish Republic 6602–6603, 6606, 7235
Kenya 5635
Malawi 6576
Mauritius 6066
New Zealand 8468, 8470
Nigeria 3347–3348
Rhodesia 5640, 5656
Rumania 4804, 6653
S. Vietnam 7606
Seychelles 4784
Sri Lanka 6620
Taiwan 64
Uganda 2474
UK 1697, 5639, 5665, 6562, 6604–6605, 6614, 6654, 7585, 7626
USA 63, 7627, 8445, 8464, 8487–8488
USSR 920, 3356
Venezuela 2461, 4803
variety trials, technique 4802
Verticillium, physiological races 77

Crop plants *contd.*
viruses 944
X rays 928, 4100
yield components 906, 6529

plant collections 4797
Crossing (*see* Hybridization)
Crossing over 32
Aegilops 189
Allium, leek 3963
Allium, minor species 9217
Elymus 2783
Glycine 3229
Lens 847
Lycopersicon 783
Pennisetum 3635
Secale 3541, 5800, 7784
Tulbaghia 3284
Zea, maize 1855, 4307, 5824, 6818
Crotalaria
Rhizobium 1976
physiological races 5960
varieties, India 1256
Crown vetch (*see Coronilla*)
Cryptomeria
chemicals, general effects, sodium chloride 2292
colour 703
γ rays 1497
genetics, colour 703
grafting 7368
heritability 704
leaf, colour 705
mutation 705
mutation, induced 1497
X rays 1497
Cucumber (*see Cucumis,* cucumber)
***Cucumis,* cucumber**
Acalymma 2326, 5512
apomixis 760
breeding
Italy 3952, 6331
Poland 3987
UK 4649
USSR 3988
chemicals, as nutrients, miscellaneous 6392
chemicals, as plant constituents
enzymes 1557
gibberellins 745
growth regulators 762
protein 4173
chemicals, fertility and sex, effects
abscisic acid 2324
auxins 2324
carbon dioxide 2324
chlorfluorenol 763

2-chloroethanephosphonic acid 2324, 761, 3169, 4152, 4689, 7416, 8297, 10100
p-chlorophenoxyacetic acid 763
ethylene 759, 3169
gibberellins 2324, 4688
miscellaneous 746, 3169
1,1,5,5-tetramethyl-3-dimethylaminodithiobiuret 4688
2,3,5-triiodobenzoic acid 763, 763
chemicals, general effects
2-chloroethanephosphonic acid 1557
herbicides 4691
methyl-3-amino-2,5-dichlorobenzoic acid 9235
2-(1-methylpropyl)-4,6-dinitrophenol 2325
chromosomes, morphology 758
chromosomes, number 10100
cold resistance 6392
combining ability 6331
development, abnormal 6388, 7418
development and growth 1556, 10098
Diabrotica 2326, 5512
Diaphania 2326
embryo culture 9201
embryology 3167
Erwinia 3163
Erysiphe 1551, 4173, 9237, 10102
experimental designs 2326
fertilization, sexual 6390, 10070
flowering 761
γ rays 2323, 7418, 10099

***Cucumis,* cucumber** *contd.*
genetics
development, abnormal 7418
embryology 3167
hairs 1555
herbicides 4691
pathology 4690
sex 3168
germination 1558
glass and plastic, cultivation under 3170, 3957, 4687, 6392, 8293, 10098
growth period 6389, 7641, 10098
habit 8463, 9201
hairs 1555
harvesting, mechanical 10071
height 762, 7420
heterosis 6389, 8429, 10096
hybrid varieties 2322, 4687, 7612, 8294, 8296
hybridization 3989
light, effect of 7418
mechanical injury 764
modifiers 3168
multiple genes 9201
mutation, induced 2323, 7418
neutrons 10099
parthenocarpy 763, 3169, 7419, 10098
pathology 4690
photoperiodism 759
photosynthesis 7641
pleiotropy 6388
pollination 3988
Pseudoperonospora 9237
quality, for canning 10071
quality, for pickling and salting 5510, 6391
quality, for storage 764
sex 745, 759, 1557, 2322, 3168, 3989, 4131, 4689, 7416, 8297, 8429, 10097, 10099–10101
Sphaerotheca 1551, 7416
sterility, male 746, 2323
temperature, effect of 6390
varieties
Antilles 1694
Czechoslovakia 8294
Hungary 8295
Italy 3981
Sweden 1694, 2300, 8497
USSR 5511, 6340
variety trials
Antilles 7612
Canada 586
Ukrainian SSR 8293
USA 757, 9235
USSR 7417, 9236
Venezuela 5510
vernalization 745
viruses 766, 6393, 7416, 10103
physiological races 765
***Cucumis,* melon**
Aphis 4681, 7410
Aulacophora 1552
chemicals, as plant constituents
carbohydrates 5505
cucurbitacin 1552
gibberellins 745
chemicals, fertility and sex, effects
2-chloroethanephosphonic acid 5506, 3164
nitrogen 5505
succinic acid–2,2–dimethylhydrazide 1553
chemicals, general effects, fungicides 4680
chromosomes, number 10100
combining ability 750
Erysiphe 1551
Fusarium 4680, 8289, 10095
physiological races 1538
genetics
Aphis 7410
Fusarium 1538
glass and plastic, cultivation under 3981, 6380
growth period 748, 6380
habit 8461
harvesting, mechanical 8461
heterosis 748–749
Meloidogyne 751
modifiers 7410
pollen 3982
polyploidy 2319, 9232

***Cucumis,* melon** *contd.*
quality, of edible product 6380
seedlessness 2319
sex 745, 1553, 5505
Sphaerotheca 1551
temperature, effect of 3982
varieties
Czechoslovakia 7409
France 9211
India 9231
USA 5504
variety trials
Rumania 7408
Thailand 7573
Uzbek SSR 747
yield components 748
Cucurbita
cell division 754
chemicals, as plant constituents
esterase 6386
leucine aminopeptidase 6386
nucleic acids 4686
peroxidase 756
chemicals, cytological effects, boron 754
chemicals, fertility and sex, effects
2-chloroethanephosphonic acid 2321, 753, 8292
gibberellins 2321, 4688
miscellaneous 746
γ-naphthylacetic acid 755
α-naphthylacetic acid 755
1,1,5,5-tetramethyl-3-dimethylaminodithiobiuret 4688
Erwinia 3163
Erysiphe 7415
experimental designs 4685
genetics, habit 7414
habit 756, 7414
heritability 2425
history and evolution 3166
hybrid varieties 753, 8292, 8428, 9229
hybridization 9196
hybridization, interspecific 6386
land races 3985
multiple genes 6386
Peponapis 3166
quality, for freezing 6387
seed production 8292
sterility and fertility 755
sterility, male 746, 8292
taxonomy 4686
varieties
Czechoslovakia 7413
India 9233
variety trials
Hungary 5509
Italy 3986, 9234
Xenoglossa 3166
Cucurbits
breeding 2318
India 6378
USSR 10066
cell division 744
chemicals, as nutrients, miscellaneous 6379
chemicals, fertility and sex, effects, 2-chloroethanephosphonic acid 9229
flower 744
flowering 2317
growth period 6379
history and evolution 9230
pathology 2318
polyploidy 744, 2317
sex 9229
sterility, male 8486, 9229
Cultivars (*see* Varieties)
Cumin (*see Cuminum*)
Cuminum, variety trials, Bulgaria 3850
Cupressus
chromosomes, morphology 5484
history and evolution 10065
pollen 10065
Curcurbita, cell division 754
Currant (*see Vitis*)
Currant, black (*see Ribes,* black currant)
Currant, red (*see Ribes,* red currant)
Cuttings
Ipomoea 9796
Malus 9063
Manihot 2097
Sequoia 1534
Cyamopsis
Asphondylia 2005

Cyamopsis contd.
chemicals, as plant constituents, gum 412
chemicals, mutagenic effects, ethyl methanesulphonate 411
heritability 409
history and evolution 6994
mutation, induced 411
yield components 409

Cydia
Malus 5346
Pyrus 5346
Cydonia
breeding, Bulgaria 613
cold resistance 9093–9094
growth period 9056
mutation, induced 5366
pollen 9056
sterility, self 9056
varieties
Bulgaria 6209
Turkey 7259
Turkmenian SSR 6210
variety trials, Rumania 8160
X rays 5366
Cymbopogon, breeding, India 9016
Cynara, **globe artichoke,** breeding, Italy 6333
Cynodon
density of stand 1872
development and growth 5947
heritability 1959
mixtures of crops or genotypes 1872
quality, for nutrition 1959
Cynosurus, varieties, Netherlands 7632
Cypress (*see Cupressus*)
Cytology 883
Matricaria 577
Oryza 6911–6912
Ribes, black currant × *Ribes,* gooseberry 9151
Vicia, broad bean 8419
Cytology, technique 2444
Lens 1673
Cytomixis
Gossypium 7081
Pisum 9302
Cytoplasmic inheritance 3, 14, 2413, 3261, 4757, 6493, 7653
Beta 7109
Capsicum 572
Carya 6300
Cochliobolus 4822
crop plants 8393, 8500
Helianthus, sunflower 1363
Lycopersicon 784, 4003
Medicago 5152
Nicotiana 2107, 3808
Oryza 1166
Pelargonium 2423
Petunia 9340
Secale × *Triticum* 3426
Solanum, potato 2022
Zea, maize 1875, 2632, 4309, 6811, 6844, 7797, 7799
Dactylis
aneuploidy 6948
breeding
UK 6571
White Russian SSR 8804
chemicals, as nutrients, nitrogen 1175, 8808–8809
chemicals, as plant constituents
carbohydrates 9696
chlorophyll 8808
nitrogen 8808–8809
chromosomes, accessory 6947
cold resistance 1174
combining ability 9694
diploidy 5133
Erysiphe 8811
flowering 3678
genotype × environmental interaction 871
grazing 7910
leaf, colour 7911
mixtures of crops or genotypes 7907
polyploidy 6948
Puccinia 6949, 7911

Dactylis contd.
quality, for nutrition 358, 365, 4405, 9695
sterility, male 9688
sterility, self 9687
synthetic varieties 2765, 6935
varieties
Canada 7909
Czechoslovakia 5133
Netherlands 1718
Switzerland 5126–5127, 6933, 6935
varieties, classification 2758
variety trials
Czechoslovakia 2764
Italy 7599
New Zealand 6946
USSR 1174
yield components 364
Dacytlis, varieties, Australia 5132
Dandelion (*see Taraxacum*)
Danthonia
inflorescence 378
reproduction 378
taxonomy 5143

dormancy 1974
genotype × environmental interaction 1974
germination 1974
light, effect of 1974
Dasyneura
Larix 5480
Medicago 5972
Pyrus 6182
Date (*see Phoenix*)
Datura
anther culture 39, 3289, 7554
anther culture, technique 4112
chemicals, cytological effects, butanol 4533
chemicals, mutagenic effects, *N*-nitroso-*N*-methylurea 9930
chromosomes, aberrations 4533
haploidy 4112
haploidy, technique 7554
mutation, induced 9930
polyploidy 3289
Daucus
agronomy 724
Alternaria 4658
breeding
Poland 7955
Tunisia 5487
UK 720
cavity spot 9046
chemicals, as plant constituents
aminoacids 905
carotene 905, 10072
carotenoids 2303, 3958
chlorophyll 10072, 10074
chemicals, general effects
CCC 721
N-dimethylaminosuccinamic acid 721
development and growth 10072
epistasis 2303
Erwinia 2304
genetics
carotenoids 3958
root, colour 2303
sterility, male 7380
sterility, male, cytoplasmic 723
growth period 6345
Meloidogyne 8263
polyploidy 5994
Psila 2302
quality, for canning 7381
quality, for freezing 7381
quality, for nutrition 724
quality, for storage 718
quality, of edible product 6268
root, colour 2303, 10074
root, shape 720, 3142, 3959
root, shape, technique 3144
root, size 720, 3142, 3959
seed testing 10075
sex 6345, 8444
soil pH 6268
Stemphylium, technique 6346
sterility, male 4656, 6345, 8444, 9212, 10073
sterility, male, cytoplasmic 717, 722–723, 4657, 6344, 7380
tissue culture 10072

Daucus contd.
varieties
Denmark 3142
Sweden 8494
variety trials
Belgium 1539
Chile 5488
Denmark 3142
Nigeria 4655
UK 714
Defoliation (*see* Leaf fall)
Degeneration 3269
Deletion (*see* Translocation)
Dendrocalamus
chemicals, as plant constituents, peroxidase 6962
taxonomy 6962
Density of stand
Arachis 565
Asparagus 4151
Avena 1752
Brassica, Brussels sprouts 9049
Brassica, cauliflower 737, 9048
Capsicum 4153
cereals 1752
Cynodon 1872
Glycine 9368
Gossypium 5224–5225, 8924
Hordeum 3628, 6584, 7855
Ipomoea 6029
Lolium 1182, 4407, 5136
Lycopersicon 6396
Medicago 2805, 5159
Oryza 331
Pinus 694
Saccharum 9840
Secale 4927
Solanum, potato 4437
Sorghum 5902, 8767, 9661
Thea 1342
Trifolium, red clover 9739
Triticum 2540, 2579
Vigna 6447
Vitis 8223
Zea, maize 243–245, 1058, 1872–1873, 3577, 3597, 4324, 4975, 8664, 8670, 9538, 9605
Zea, sweet corn 2675, 8732
Deschampsia, chromosomes, number 2430
Designs, experimental (*see* Experimental designs)
Desmodium
chemicals, as plant constituents
peroxidase 8875
tannin 5942
genetics 410
leaf, colour 8875
peroxidase 8875
stem, colour 8875
hybridization, interspecific 410, 5942
leaf, colour 8875
linkage 8875
Rhizobium 2004
physiological races 5960
stem, colour 8875
sterility and fertility 410
Desynapsis
Aegilops 3525
Brassica, cabbage 7397
Pisum 7234, 8353
Triticum 6700
Zea, maize 7806
Deterioration during storage (*see* Quality, for storage)
Development, *Elaeis* 8107
Development, abnormal
Amaranthus 800
Anacardium 10054
Beta, sugar beet 3791
Capsicum 8119–8120
Cucumis, cucumber 6388, 7418
Dolichos 825
Gossypium 4456
Linum 2074
Lycopersicon 7433
Nicotiana 1331, 4494, 6114–6115, 7141
Rubus 9150
Secale × *Triticum* 6716
Setaria 4364
Solanum, potato 3734, 5206
Theobroma 5630
Triticum 149, 4220

Development and growth 2443, 3707, 7543, 8374, 9330
Acer 4109
Agropyron 9711
Arabidopsis 1669
Arachis 4524, 9918
Avena 1816, 6783, 6786
Beta, sugar beet 9866
Beta, sugar beet 9872
Betula 3126
Brassica, kohl rabi 7958
Brassica, oil crops 6731
Cannabis 8019
Ceratocystis 1508
cereals 5684
Cichorium, chicory 8288
Coffea 8079
Corylus 670
crop plants 6529, 9376
Cucumis, cucumber 1556, 10098
Cynodon 5947
Daucus 10072
Elaeis 562, 5320
Fragaria 1450, 9039
Glycine 5577, 9290
Gossypium 1283, 6039–6040, 7999, 9805
grasses 10176
Hevea 582, 7209
Hibiscus 8031
Hordeum 1898, 2687–2688, 2704, 5865, 6876
Ipomoea 6029
Larix 3950
Linum 8012
Lolium 1178
Lycopersicon 1579, 3184, 7438, 9242, 9253
Malus 5347, 8144, 9064–9065, 9073
Medicago 1194
Mentha 4089, 6489
Nicotiana 523, 3815, 5270, 5277
Onobrychis 2826
Oryza 1159, 2740, 3335, 3655, 5033, 5075, 5108, 7581, 7888, 8789
Oxycoccus 4613
Pectinophora 8927
Pennisetum 5882
Phaseolus 7462
Phleum 1957
Picea 4646
Pinus 1515, 1521
Pisum 2386, 4081, 8353
Prunus, almond 7243
Prunus, apricot 7243
Prunus, cherry 3886
Prunus, peach 3035, 7243
Prunus, plum 9972
Pseudotsuga 5481–5482, 7365
Pyrus 3012, 3873
Rubus, raspberry 3052
Saccharum 1303
Salix 1511
Secale 7786, 7788
Sesamum 2137
Solanum, potato 6010–6011, 7016
Sorghum 3643, 6901
Spinacia 6327
Theobroma 6142
Trifolium 5163
Trifolium, minor species 8862
Trifolium, red clover 8855–8856
Triticum 2562, 2572, 3460, 3503, 4251, 4871, 4880, 6734, 6736, 9451, 9500
Vicia, vetch 9744
Vitis 3104, 5429, 6284–6285, 8216, 8218, 9178
Zea, maize 1073–1074, 3583, 3587, 4318, 4322, 4333, 5820, 5825, 6809, 6831, 6843, 7817, 7822, 8700, 8704, 9606
Diabrotica, Cucumis, cucumber 2326, 5512
Diallel analysis 865, 4093, 7539
Agropyron 8830
Beta, sugar beet 5251
Brassica, mustard 2976
Bromus 1960
Cola 6139
Gossypium 7077
Hordeum 2685, 8741
Lolium 4407
Lycopersicon 2406, 5526, 6404
Matthiola 3260
Medicago 1982, 2797
Nicotiana 4495
Diallel analysis *contd.*
Pisum 10156
Secale 8654
Secale × *Triticum* 7718
Sorghum 7871–7872
Trifolium, red clover 5165
Triticum 8553, 8556, 8601
Zea, maize 1869, 8661, 8676, 8679

Diaphania, Cucumis, cucumber 2326
Diatraea
Saccharum 2903, 6078
Zea, maize 8446
Dichanthium, hybridization, interspecific 5957
Dichocrocis, Ricinus 5307
Didymella
Lycopersicon 9208
Rubus, raspberry 6183, 9149
Differentiation (*see* Development and growth)
Digitalis
breeding, Rumania 8124
chemicals, as plant constituents, glycosides 5337
chromosomes, number 65
flower 6175
hybridization, interspecific 5337–5338, 8124
pollination 4534
Digitaria
anatomy 374
aneuploidy 1970
chemicals, general effects, gibberellins 2777
chromosomes, number 4168, 5128, 5939, 6940, 6957
cold resistance 2778–2779
hybridization, interspecific 2779, 9709
meiosis 6940, 6957
plant introduction 5939
pollen 2777
polyploidy 1970, 5939
quality, for nutrition 8827, 9714
sterility and fertility 6957
taxonomy 8828
varieties, USA 3688–3689
variety trials, Brazil 9712
viruses 374
Dill (*see Anethum*)
Dioscorea
breeding 7126
Antilles 7613
chemicals, as plant constituents
diosgenin 5659
protein 514
Colletotrichum 8051
hybridization, interspecific 5265, 6107
plant collections 5264
quality, for processing 8966–8967
quality, of edible product 8051
taxonomy 515
varieties, classification 1327
variety trials, Fiji 8051
Diospyros
history and evolution 8245
hybridization, interspecific 8239
taxonomy 654
varieties
Japan 3900
USSR 4594
Diplodia (*see also Physalospora*)
Citrus 3039
Zea, maize 1881, 4985
Diploidy
Dactylis 5133
Lotus 3716
Phytophthora 3745
Solanum, potato 5201, 9773
Triticum 9444
Distantiella, Theobroma 6140
Distribution (*see* Geography)
Ditylenchus
Allium, garlic 6357
Avena 6548, 6568
Medicago 397, 4122
Solanum, potato 3749
Trifolium, red clover 4159
Trifolium, white clover 2818, 3710
Dolichos
chemicals, as plant constituents
aminoacids 8836
γ-glutamylphenylalanine 8836
chromosomes, morphology 804
chromosomes, number 804
development, abnormal 825
flower, number of parts 825
growth period 5176, 6593
habit 6593
hybridization 5655
Rhizobium, physiological races 9264
taxonomy 804, 8836
variety trials, India 7477
yield components 5176
Dominance 3259, 3267
Brassica 9221
Nicotiana 2105
Triticum 4884, 8620
Vicia, broad bean 4024
Vitis 3912
Dormancy
Arachis 7185–7186
Avena 202
Cenchrus 5138
cereals 4186
forest trees 3120
Helianthus, sunflower 1364
Hordeum 1900, 2701, 5863
Juglans 6299
Lactuca 10092
Malus 1402, 2190, 3120, 3854
Oryza 5106, 7889
pome fruits 6194
Prunus, almond × *Prunus,* peach 8182
Prunus, apricot 4574, 9098
Prunus, cherry 3854
Prunus, plum 9107
Pyrus 9964
Rubus, raspberry 3050
Secale 7737
Solanum, potato 4438
stone fruits 6194
Trifolium, subterranean clover 8861
Triticum 147, 1007, 2564, 3464, 4232, 6732, 7702, 7737, 9447
Vicia, vetch 7951
Dothidella, Hevea 4536–4537
Dothistroma, Pinus 2286
Douglas fir (*see Pseudotsuga*)
Drosophila, Lycopersicon 7445
Drought resistance (*see* Heat and drought resistance)
Drying quality (*see* Quality, for drying)
Dryocosmus, Castanea, physiological races 5450, 6301
Duplicate genes (*see* Multiple genes)
Dwarf habit (*see* Height)
Dysaphis
Malus 607, 8151
Pyrus 6182
Ear (*see* Inflorescence)
Earliness (*see* Growth period)
Echinochloa
chromosomes, number 2719
taxonomy 2719
Ecology 8375
Theobroma 2966
Ecotypes
Avena 6785
Eucalyptus 3133
Festuca 3686, 7655, 9704
Fraxinus 8250
Liquidambar 689
Medicago 389, 1988
Phragmites 9716
Pinus 5468, 5471
Poa 362
Sesamum 5309
Setaria 1691
Trifolium, red clover 1203
Triticum 1008, 2525, 3406, 5743
Vicia, broad bean 10129
Egg plant (*see Solanum,* egg plant)
Elaeis
breeding 3839
Ivory Coast 560
Nigeria 3840
chemicals, as nutrients, magnesium 8107
chemicals, as plant constituents
calcium 3841
chlorophyll 7176

Elaeis contd.
chemicals, as plant constituents *contd.*
magnesium 3841
nitrogen 3841
phosphorus 3841
potassium 3841
tannin 4518
chemicals, general effects, miscellaneous 7177
development 8107
development and growth 562, 5320
Fusarium 8108
genetics
chlorophyll 7176
photosynthesis 7176
history and evolution 7178
hybridization, interspecific 561, 2142
inbreeding 5320
leaf 8107
leaf, size 5320
parthenocarpy 7177
photosynthesis 7176
plant collections 3840
pollen, technique 6575
root, anatomy 4518
selection, artificial 2142
sudden wilting 4518
yield components 562
Electricity, effect of, *Lycopersicon* 1566
Electrons, *Zea,* maize 9574
Eleusine
bacteria 7676
breeding, India 6900
chromosomes, accessory 9649
Colletotrichum 289
fungi 7676
heat and drought resistance 5023, 5651, 5651
Helminthosporium 289, 5651
heritability 4365
history and evolution 5651
hybridization, interspecific 6560
leaf, size 5886
lodging 6560
Macrophomina 5651
Pyricularia 290, 5651, 5651, 5651
quality, for nutrition 9650
seed storage 7676
shedding 6560
taxonomy 5022
varieties
India 5885, 8764
Kenya 7592
viruses 291
yield components 4365
Elm (*see Ulmus*)
Elymus
chromosomes, breakage 2783
chromosomes, morphology 2782
crossing over 2783
genome analysis 375–376, 1189, 5956, 6958
haploidy 5683
history and evolution 1189
hybridization, interspecific 375–376, 1189, 6958
meiosis 375–376, 1189, 2783
seed production 1972
selection, artificial 1972
taxonomy 7675
Elymus* × *Agropyron, hybridization, intergeneric 376
Elymus* × *Hordeum
embryo culture 5683
hybridization, intergeneric 5683
Elymus* × *Secale
embryo culture 5683
hybridization, intergeneric 5683
Elymus* × *Triticum
embryo culture 5683
hybridization, intergeneric 5667, 5683
Embryo
Arachis 4524
Capsicum 8118
Pinus 1518
Triticum 4213
Zea, maize 4966, 5809
Embryo culture
Citrus 5383
Coffea 8079
crop plants 4111
Embryo culture *contd.*
Cucumis, cucumber 9201
Elymus × *Hordeum* 5683
Elymus × *Secale* 5683
Elymus × *Triticum* 5683
Festuca 1179
Festuca × *Lolium* 1179
Hordeum 8745
Lolium 1179
Roegneria × *Secale* 5683
Trifolium, minor species × *Trifolium,* red clover 1197
Triticum 8579
Zea, maize 5819
Embryo culture, technique, *Prunus,* cherry 9121
Embryo sac 4603
Beta, sugar beet 5252
Citrus 6237
Embryo, size
Lolium 1180
Zea, maize 5836
Embryology
Beta, sugar beet 9868
Citrus 630
Citrus, mandarin 2222
Citrus, orange 2222
Cucumis, cucumber 3167
Gossypium 457
Hibiscus 1300
Hordeum 1893
Nicotiana 6120
Ornithopus 2830
Populus 7342
Prunus, nectarine 3888
Prunus, peach 3888
Ranunculus 40
Ribes, black currant 1438
Secale 4924
Stipa 2786
Theobroma 2964
Vaccinium 2238
Zea, maize 1083
Empoasca
Hibiscus 9839
Solanum, potato 447, 3750
Endive (*see Cichorium,* endive)
Endomitosis
Allium, minor species 731, 7557
Beta, sugar beet 3786, 7109
Phaseolus 882, 7460
Pisum 7505
Endopolyploidy (*see* Endomitosis)
Endosperm 9339
Brassica, cabbage 8278
Lolium 6955
Melilotus 4426
Oryza 3658, 6916–6917
Putranjiva 4776
Sorghum 1139, 5900
Taraxacum 5542
Tilia 7349
Triticum 4213, 9472
Zea, maize 213, 2645, 2653, 4303, 4313, 4965, 7587, 8665, 8691
Endothia, Castanea 8236
***Endothia,* technique,** *Castanea* 8234
Enteropogon, taxonomy 7922
Environment
Avena 197
Benincasa 5513
Beta, sugar beet 4483
Bromus 5948
Oryza 6925
Pisum 4080
Triticum 7741
Environment, technique, crop plants 7643
Ephedra
cell division 579
cold, effect of 579
Epidermis
Aloe 487
Capsicum 1382
Gossypium 8006
Lycopersicon 9257
Malus 7250
Zea, maize 2661
Epilachna, Glycine 4069
Epistasis 12, 1652, 3259, 6508
Daucus 2303
Glycine 5573
Gossypium 6042
Matthiola 3260
Epistasis *contd.*
Solanum, potato 3734
Triticum 1784, 4262, 4865, 8631
Vicia, vetch 7951
Zea, maize 6808, 9562
Eragrostis
apomixis 9710
sex 9710
taxonomy 3691
varieties, USA 3690
Eremopyrum (*see Agropyron*)
Ergot (*see Claviceps*)
Erianthus, Xanthomonas 6067
Eriobotrya, varieties, India 4572
Eriosoma, Malus 7220
Erwinia
Allium, minor species 4665
Ananas 4611
chemicals, as plant constituents, phosphatidase 2304
Cucumis, cucumber 3163
Cucurbita 3163
Daucus 2304
immunology 3878
Lycopersicon 4016
Malus 6205
mutation, induced 2304
Pyrus 3016, 3871, 3877–3878, 7221
Solanum, potato 4445, 9788
***Erwinia,* technique,** *Pyrus* 8159
Erysiphe
Agropyron × *Triticum* 987, 4257
Beta, sugar beet 6106, 9885
Brassica, swede 5180
Citrullus 1551
Cucumis, cucumber 1551, 4173, 9237, 10102
Cucumis, melon 1551
Cucurbita 7415
Dactylis 8811
Hordeum 92, 279–280, 1129, 1905, 2514, 2709, 2712, 2714–2715, 3388, 4357, 4359, 5876, 6569, 6889, 7765, 7860, 8437, 8760, 9638
physiological races 4358, 6549
Malus 8147
Nicotiana 2950, 4495, 6578
Pisum 8357
Poa 1956
Secale 4919
Secale × *Triticum* 4254
Triticum 92, 177, 1804, 2514, 3508, 3512, 4117, 4174, 4254, 4841, 4898, 4901, 4909, 5778, 6684, 6770, 7678, 7691, 8624, 8627, 9500
physiological races 176, 1800, 2591, 3513, 4900, 5775, 7704
Vicia, broad bean 8321
***Erysiphe,* technique,** *Hordeum* 8759
Erythroxylon, taxonomy 2994
Essential oil plants
breeding, India 9016
plant collections 9017
Eucalyptus
altitude 3943
breeding, South Africa 6308
chemicals, as plant constituents
cineol 2274
oil, essential 7347
clines 3943
cold, effect of 2277
cold resistance 2277, 3943
ecotypes 3133
history and evolution 7348
hybridization 2274
hybridization, interspecific 1509, 2276, 9188
taxonomy 1509, 2275–2276, 7348
Euchlaena
chemicals, as plant constituents, flavonoids 7823
plant collections 4992
taxonomy 7823
Euchlaena* × *Tripsacum
history and evolution 6815
hybridization, intergeneric 6815
pollen 6815
***Euchlaena* × *Zea,* maize**
hybridization, intergeneric 1070, 1848, 4948, 9567
polyploidy 1848
quality, for popping 9567
Eurygaster, grasses 9691

Everbearing habit, *Fragaria* 9160
Evolution, general theory 42–43, 45, 898–899, 1680–1683, 2419, 2459–2460, 3279, 3337, 4115, 4171, 4778–4779, 6509, 6532–6533, 6536–6538, 7541, 7658, 8376, 8414–8416, 8509, 9342, 9346
crop plants 940
grasses 2759
Panicum 2759
Experimental designs 7
crop plants 4794, 4803, 6649, 8480
Cucumis, cucumber 2326
Cucurbita 4685
Glycine 3234, 10150
Gossypium 4457
Malus 9074, 9946
Oryza 1940–1941
Pinus 695
Pisum 2387
Triticum 2516, 3392, 3490, 8544, 9401
Vitis 2253
Zea, maize 1844, 8664
Fagopyrum
asymmetry 8801
breeding 5932
breeding, technique 8799
chemicals, as nutrients
nitrogen 7900
phosphorus 7900
potassium 7900
chemicals, as plant constituents
growth regulators 7899
protein 7900
chemicals, general effects
N-nitroso-*N*-ethylurea 9680
N-nitroso-*N*-methylurea 9680
chemicals, mutagenic effects, miscellaneous 3349
cold resistance 9682
genetics, heterostyly 5933
growth period 4399
heritability 9681
heterosis 5123
heterostyly 5933, 8800
plant collections 1168
pollination 2756, 5934
polyploidy 1168, 1170, 3349, 5933, 7898–7900, 9680
quality, of edible product 9681
seed, size 5934
selection, natural 8800
shedding 1169, 8800
sterility and fertility 1170, 2756, 5933
temperature, effect of 1170
Fagus, geographical races 685
Fasciation, *Pisum* 5583, 7495, 7500
Female sterility (*see* Sterility, female)
Fennel (*see Foeniculum*)
Fertility (*see* Sterility and fertility)
Fertilization, sexual
Cucumis, cucumber 6390, 10070
Glycine 4737
Larix 5477
Lycopersicon 10070
Nicotiana 6120
Ornithopus 2830
Picea 2288
Populus 6317
Pseudotsuga 5477
Secale × *Triticum* 7715
Trifolium, white clover 2816
Triticum 3432
Vicia, broad bean 3205
Zea, maize 4955, 5809
Fertilization, sexual, technique, *Petunia* 4775
Fertilizers (*see* Chemicals, as nutrients)
Fescue (*see Festuca*)
Festuca
breeding, Sweden 4121
chemicals, as plant constituents
flavonoids 3686
perloline 8817
chemicals, cytological effects, colchicine 8819
chromosomes, number 892, 2430, 2430, 2775
ecotypes 3686, 7655, 9704
flowering 2775, 6941
genotype × environmental interaction 5137
growth period 9705
Helminthosporium 6943
Festuca *contd.*
heterosis 9705
history and evolution 1185–1186, 7655
hybridization 9704
hybridization, interspecific 1179, 1185–1186, 2774, 3685, 5950, 7920
mixtures of crops or genotypes 359
photosynthesis 9706
polyploidy 1185–1186, 2774, 3685, 5950, 6941
polyploidy, technique 8819
poyploidy 1185
Puccinia, physiological races 1967
quality, for nutrition 358
sclerenchyma 7655
seed production 360
selection, artificial 360
sterility and fertility 9704
synthetic varieties 1965
taxonomy 373, 1185, 1187, 1966, 2775, 7655, 7905, 7920, 8824
variation 359
varieties
Netherlands 1718, 7632
USA 3684
varieties, classification 2758
variety trials, UK 5125
Festuca* × *Lolium
anther culture 8438
chemicals, as plant constituents
lignin 8458
perloline 8458, 8817
chromosomes, accessory 1964
embryo culture 1179, 1179
genotype × environmental interaction 1183
haploidy 8438
hybridization, intergeneric 1179, 1183, 1185, 1964, 2773, 5949, 7919, 8438, 8458, 8816–8817, 9703
meiosis 1964
polyploidy 1185, 5949
seed production, technique 9703
synthetic varieties 8458
varieties, USA 2773
yield components 1183
Fibre plants
chromosomes, morphology 2051
chromosomes, number 2051
history and evolution 2051
Fibre quality (*see* Quality, of fibre)
Ficus
apomixis 9144
chemicals, as plant constituents, iron 9991
hybridization, interspecific 9992
taxonomy 3897
Field bean (*see Phaseolus, Vicia,* broad bean)
Fig (*see Ficus*)
Filbert (*see Corylus*)
Fir (*see Abies*)
Flax (*see Linum*)
Flooding
Cenchrus 4410
grasses 350
Oryza 1942, 5076, 5929, 6927
Panicum 4362
Populus 1501
Zea, maize 3601
Flour quality (*see* Quality, for milling and baking)
Flower
Acer 5463
Anacardium 10054
Avena 2615
Brassica, oil crops 2131
Capsicum 1383, 6173, 8118–8120
Carica 7583
cucurbits 744
Digitalis 6175
Hordeum 4348
Linum 2074
Lupinus 1219
Mangifera 5394
Medicago 1195, 5155, 7938, 9728
Nicotiana 7141, 8057, 8974
Oryza 5087, 8790
Oxycoccus 4613
Prunus, peach 5380
Prunus, apricot 3017
Prunus, cherry 3017
Prunus, peach 3017, 5380
Flower *contd.*
Prunus, plum 3017
Raphanus 6349
Sesamum 3834, 5308
Solanum, egg plant 798
Stipa 2786
Thea 6132
Trifolium, white clover 401
Triticum 149, 8586
Vigna 5568
Vitis 6285
Flower, colour
Brassica, oil crops 2130–2131
Cajanus 5592, 8360, 8362
Lupinus 6990
Matthiola 8377
Medicago 4412, 8844–8845, 9719
Melilotus 6989
Onobrychis 8865
Papaver 4136
Pisum 4741
Prunus, peach 9985
Vicia, broad bean 4025
Vigna 819, 4047, 7476
Flower, number
Prunus, cherry 9125
Rubus, raspberry 6183
Flower, number of parts
Dolichos 825
Musa 8201
Flowering
Agrostis 6941
Allium, onion 2310
Apium 8286
Arachis 2166
Atropa 5339
Beta, sugar beet 5256
Brassica 3965, 8272
Capsicum 8118
Carthamus 2987
Carya 2266
Coronilla 3719
Cucumis, cucumber 761
cucurbits 2317
Dactylis 3678
Festuca 2775, 6941
forest trees 6311, 8246
Fragaria 647, 9039
fruit crops 8134
Glycine 9292–9293
Helianthus, sunflower 2983
Hibiscus 1299
Hordeum 2707, 6877
Lupinus 1219, 5173
Lycopersicon 4006, 6415
Malus 2190, 6195, 8141–8142, 9949
Medicago 1194, 8848
Meliaceae 5453
Momordica 2317
Nephelium, longan 7575
Nicotiana 6117
Olea 3843
Oryza 2742
Persea 6247
Phaseolus 6436
Pinus 690
Pistacia 1474
Populus 3940
Prunus, almond 6304
Prunus, almond × *Prunus,* peach 8182
Prunus, apricot 3880
Prunus, cherry 9122
Prunus, peach 627, 2218, 4584
Prunus, plum 618, 5373, 6195
pulses 1587
Pyrus 3873, 6195
Ribes, black currant 3057, 5404, 6195
Ribes, gooseberry 6195
Ribes, red currant 6195
Saccharum 2087
Secale × *Triticum* 2541, 6714, 7714
Sinocalamus 6961
Solanum, potato 2849
Sorghum 5897, 9655
Trifolium, minor species 1999
Trifolium, red clover 5975
Triticum 148, 2576, 4235, 5746, 8593, 9456, 9463
Vigna 4732
Vitis 2256–2257, 3923, 7316, 7318, 10038
Zea, maize 3585
Flowering, technique, *Pinus* 3946

Fluorescence
Lathyrus 2003
Vicia, broad bean 4769
Zea, maize 4956
Fodder beet (*see Beta,* mangel)
Foeniculum, polyploidy 8111
Forcipomyia, *Theobroma* 542
Forest trees
breeding
Austria 674
Belgium 5452
Denmark 1476, 1482
Finland 7337
Italy 7336
Malawi 7607
Sweden 1484
Ukrainian USSR 8243
USA 675, 1477, 1488, 1490
USSR 1492–1493, 1495, 8244
Ceratocystis 7339
chemicals, as plant constituents, nucleic acids 3937
chromosomes, aberrations 4631
chromosomes, accessory 3119
chromosomes, morphology 3119, 4632
chromosomes, number 677, 3119, 4631–4632, 6310–6311, 8246
dormancy 3120
flowering 6311, 8246
fungi 4634
history and evolution 3119, 3937, 4753
legislation 1480, 1493
plant collections 1490
pollen 6311
pollination, technique 676
polyploidy 3119
population genetics 1478
precocity of bearing 2999
seed production 679, 1480, 1492
selection, natural 1478
taxonomy 3937
Foxglove (*see Digitalis*)
Fragaria
Aphelenchoides 2245
botany 1449
breeding 1449
Azerbaijan SSR 8192
New Zealand 4788
USA 3063
USSR 9159
chemicals, as plant constituents
anthocyanins 4608, 8199
ascorbic acid 8199
miscellaneous 904, 5412
oil, essential 5414
chemicals, fertility and sex, effects
2-chloroethanephosphonic acid 4553
miscellaneous 647
chemicals, general effects
3-cyclohexyl-6,7-dihydro-1*H*-cyclopentapyrimidine-2,4-(3*H*,5*H*)dione 4814

pronamide 6269
chemicals, mutagenic effects, colchicine 5411
chromosomes, number 7301
climate 9045
cold, effect of 2244, 3064
cold resistance 8200, 9164
Colletotrichum 3906
physiological races 3065
colour 4608, 8199
combining ability 8196
development and growth 1450, 9039
everbearing habit 9160
flowering 647, 9039
fruit, colour 7232
fruit, size 5413
fruit, texture 4606
genetics 1449
anthocyanins 4608
fruit, texture 4606
genotype × environmental interaction 10012
growth period 2244, 7299
harvesting 3061
harvesting, mechanical 3063, 8443
heritability 6266, 10013
heterosis 2242
history and evolution 2243
hybridization 8198

Fragaria *contd.*
hybridization, interspecific 646, 4609, 7301, 8443, 9033
hybridization, wide 4610
Marssonina 6270
matrocliny 8196
mechanical injury 9045
meiosis 7301
mutation, induced 5411
pathology 1449
patrocliny 8196
Phytophthora 7305, 9045
physiological races 648–649
Phytophthora, technique 648
pollen 2182
pollination 8197
polyploidy 2243, 7302
pruning 5413
quality, for canning 7232
quality, for freezing 6267, 7237
quality, for storage 5412
quality, of edible product 6268, 7237, 7299, 8199
Rhizopus, technique 10016
Sclerotinia 3061, 3066, 7303–7304, 9045, 10015
Sclerotinia, technique 10016
soil pH 6268
sterility and fertility 646, 7302
sterility, male 4553
sterility, self 3062
Tetranychus 5414–5415
varieties
Bulgaria 6264
Canada 2241
German Democratic Republic 3905
Hungary 7300
Rumania 8195
South Africa 6265
USA 4549, 5410, 10011
Yugoslavia 9158
variety trials
Belgium 2182
Bulgaria 4607
Cameroon 1441
Canada 586, 645
German Federal Republic 904, 9163
Italy 5408
Poland 1443–1444, 10009
Rumania 6260, 8193
S. Korea 3060
South Africa 6263
Spain 1442, 3904
Sweden 7298
Turkey 6262
UK 1440, 1536, 6261, 9935
Ukrainian SSR 1445
USA 2240, 3061, 5409, 9160
USSR 1446–1448, 9162, 10010
Yugoslavia 8194
variety trials, technique 9161
Verticillium 9039, 9165
Verticillium, technique 10014
viruses 650, 2246, 6263
yield components 2242, 10013
Fragaria × ***Rubus,*** hybridization, intergeneric 8197
Frankliniella, Arachis 1380–1381
Fraxinus
breeding, USA 6309
ecotypes 8250
Freezing quality (*see* Quality, for freezing)
French bean (*see Phaseolus*)
Frost (*see* Cold resistance)
Fruit
Acer 2282
Brassica, oil crops 5301
Capsicum 8118
Carica 9999
Citrus, tangerine 632
Cocos 4595
Corylus 8235
fruit crops 2185
Gossypium 463
Lycopersicon 1578, 7438, 9249, 9253
Malus 602, 3004, 5357, 7250, 9035, 9060
Mangifera 5394
Medicago 5152
Morus 6242
Phaseolus 6440
Prunus, peach 2217, 9985
Pyrus 3011
Ribes, gooseberry 8191

Fruit *contd.*
Sesamum 3834
Theobroma 2967
Vigna 5568
Vitis 4623, 8218
Fruit, anatomy
Brassica, rape 5304
Lycopersicon 10112
Theobroma 4503
Fruit, colour
Cajanus 4749, 8361–8362
Capsicum 6622, 9020–9021
Citrus, tangerine 633
Fragaria 7232
Lycopersicon 779, 6418, 7428
Malus 600, 7251, 9068
Prunus, cherry 9120
Prunus, peach 2217
Prunus, plum 1414, 6218–6219
Solanum, egg plant 3198
Vaccinium 7297
Vitis 2258, 4620, 8212, 8214, 9179, 10036
Fruit cracking
Lycopersicon 792, 4014
Mangifera 9997
Nephelium, litchi 10025
Prunus, cherry 622, 3028–3029, 5376, 7275
Fruit crops
breeding
Bulgaria 6188
France 8131
India 9053
Netherlands 3853
Rumania 7239, 9942
UK 6180
USA 5341–5342
USSR 6187, 6189, 8131, 9941
White Russian SSR 585
chemicals, as plant constituents, sugar 4554
chemicals, cytological effects, acenaphthene 9944
climate 3000
cold, effect of 3000
cold resistance 4554

flowering 8134
fruit 2185
γ rays 9944
harvesting, mechanical 1395
heat and drought resistance 590
hybridization, wide 8132
mutation 7242
mutation, induced 8133

plant collections 2184
pollination 2186, 5345
polyploidy, technique 9944
precocity of bearing 2999
quality, of edible product 9050
radiation 588
variation 2185, 7242
varieties
Canada 7241
Pakistan 9943
Rumania 9942
UK 1393, 5344
varieties, classification 1394
variety trials
Belgium 2180
UK 587
USA 7240
USSR 1392, 2998
vegetative reproduction 6193
water balance 589
Fruit, number
Lupinus 3714
Phaseolus 10136
Theobroma 4502
Fruit, number of parts
Gossypium 1280, 3759
Lycopersicon 777, 10108
Pyrus × *Sorbus* 5361
Fruit, shape
Malus 9071
Phaseolus 8330
Prunus, plum 6219
Vitis 7320, 8214
Fruit, size
Carica 639
Fragaria 5413

Fruit, size *contd.*
Gossypium 2063
Malus 5356, 8146
Phoenix 5400
Pisum 7495
Prunus, plum 2210
Pyrus 8157
Vigna 819
Vitis 3098, 3101, 4616, 6288, 7320, 7324, 8212, 8214, 8221, 9173, 10033
Fruit, texture
Fragaria 4606
Pyrus 3010
Fruit, weight
Lycopersicon 10110
Phoenix 6244
Fruiting, biennial or irregular
Malus 9066
Prunus, plum 3021, 9971
Pyrus 4569
Fungi
cereals 3390
physiological races 3388
crop plants 73, 940, 9384
physiological races 5677
Eleusine 7676
forest trees 4634
Glycine 1623
Gossypium 8006, 8008
Lycopersicon 1561, 6423
Oryza 7676
Pinus 4634
Solanum, potato 5182
Sorghum 9664
Triticum 1802, 1808
Zea, maize 8721, 9611
Fusarium *(see also Calonectria; Gibberella; Nectria)*
Agropyron × *Triticum* 7711
Avena 5796
Brassica, cabbage 10086
Cajanus, physiological races 6487
cereals 9397
Citrullus 4684, 5508, 6591
Coffea 6579
Coriandrum 5599
Cucumis, melon 4680, 8289, 10095
physiological races 1538
Elaeis 8108
Gossypium 1264, 1287, 2880–2881, 3763–3764, 4458, 5227, 6041, 7092–7093, 8450, 9824
physiological races 470, 2069, 6049–6050
Ipomoea 2042

Linum 2077, 2889, 3769–3770, 5232, 6055–6056, 6551, 7098, 8015
physiological races 5233
Lupinus 5991
Lycopersicon 3192–3193, 4017, 4714–4715, 6592, 9255
physiological races 2343–2344, 4713, 5535

Musa 3299, 3319, 3366
Nicotiana 2117
Phoenix 9998
Pisum 1628, 4789, 7494, 9937, 10171
physiological races 5587, 7234, 7512
Rubus, raspberry 9043
Secale × *Triticum* 7711
Solanum, potato 434, 6542, 7027
Triticum 1038, 4256, 6686
variation 2889
Vicia, broad bean 8322
Vicia, vetch 1212
Vigna 8454
Zea, maize 1875, 4980, 4985, 6563, 6848–6849, 7661, 7668, 7829
***Fusarium,* technique,** *Cajanus* 6487
γ rays
Aegilops 7719
Arachis 2989
Avena 1047, 6786
Beta 7110
Beta, sugar beet 3791, 5255, 6105
Betula 4636
Brassica, cabbage 4669
Brassica, cabbage × *Brassica,* rape 2128
Brassica, kale × *Brassica,* rape 2128

γ rays *contd.*
Brassica, mustard 2128
Brassica, oil crops 2134–2135, 5302
Brassica, rape 547, 2128, 2136
Brassica, turnip 5996
Camelina 2128
Cannabis 3771
Capsicum 574
Citrullus 6384
Citrus, mandarin 5386
Corchorus 6062
Cryptomeria 1497
Cucumis, cucumber 2323, 7418

Glycine 1609, 6455
Gossypium 458, 1275–1277, 1279, 3757, 4454, 7066, 7079–7080, 7082
Helianthus, sunflower 2981
Hordeum 16, 268–269, 1750, 1885, 1893, 2505, 2696–2698, 3619, 4348, 4352, 5004, 5006, 5670, 5856–5857, 6872–6873
Humulus 2126
Ipomoea 451
Lens 847, 5590–5591
Linum 475, 2128
Lupinus 5172
Lycopersicon 782, 1565, 2334, 3181, 5527, 7431–7432, 7438, 8308
Malus 600, 2189
Medicago 7934
Mentha 851, 4088, 6488
Morus 6240
Nicotiana 2109, 3813, 7136, 8060
Olea 2145
Oryza 1165, 1929, 1931–1932, 2739, 3660, 5103, 5685, 6922, 7881
Panicum 6890
Papaver 2128
Pennisetum 287
Phaseolus 2361, 5558, 7459, 8329, 8333–8334
Pinus 1497, 3136
Pisum 886, 888, 1728, 2385, 3245, 4078, 5585, 5670, 7498, 7503
Saccharum 490, 6067, 7107
Secale 1054, 4272
Solanum, potato 423, 2015, 7007, 7007–7008
Sorghum 5685, 5894, 7875
Triticum 134, 136, 990–995, 1750, 1775, 2505, 2551, 2554, 2563, 3311, 3449, 4239, 4856, 5670, 6722, 6729, 6734, 7719, 7752
vegetable crops 716
Vicia, broad bean 2354, 5551, 5670, 7451
Vicia, vetch 1728
Vitis 6279
Zea, maize 1851, 2636, 3341–3342, 4332, 4954, 6807, 6834, 7821
Garlic *(see Allium,* garlic)
Gene conversion 3259, 9323
Gene mapping *(see* Linkage)
Genes *(see* Genetics)
Genes, multiple *(see* Multiple genes)
Genetic code *(see* Molecular genetics)
Genetic stocks *(see* Plant collections)
Genetics 861, 869, 875–876, 1629, 1660, 3266, 4762, 5605, 7524, 8379, 8382–8384, 8386, 8389–8392, 9317–9323, 9328–9330
Aegilops 162
spikelets 2535
spiral habit 5625
Aegilops × *Triticum*
meiosis 2532
protein 4215
Agropyron, colour 1971
Allium, minor species, leaf, colour 729
Arabidopsis, chlorophyll 9331
Arachis
dormancy 7186
Puccinia 2991
seed, colour 1375
Atriplex, photosynthetic enzymes 4720
Avena
hairs 8639
Heterodera 2619
meiosis 4916, 7779
peroxidase 5790
protein 1819, 9522, 9524
Puccinia 205, 3532, 6788–6789, 8421, 9527–9528

Genetics *contd.*
Avena contd.
seed 9520
seed, colour 6782
yield components 201
Beta, beetroot, sterility, male 3143
Beta, sugar beet
Cercospora 3795
Corticium 3795
monogerm seed balls 8962, 9879
Peronospora 2094
Rhizoctonia 8964
sterility, female 5262
sterility, male 3792, 6105, 8960, 9875
viruses 2094, 3795
Brassica
chlorophyll 2833
meiosis 3151
sterility and fertility 9220–9221
Brassica, Brussels sprouts, sterility and fertility 7393
Brassica, cabbage, sterility and fertility 7393
Brassica, kohl rabi, sterility and fertility 7393, 8424
Brassica, mustard, leaf, colour 6150
Brassica, oil crops
flower, colour 2130
fruit 5301
Brassica, rape
anthocyanins 4506
glucosinolates 4506
thiooxazolidone 4506
Brassica, swede, *Plasmodiophora* 2834
Cajanus 3252
corolla, colour 4749
fruit, colour 4749
habit 4749
seed, size 4748
Capsicum
colour 4530
fruit, colour 9020
sterility, male 575, 9019
viruses 1538, 6343
Carica, sex 9147
Carthamus, sterility and fertility 9012
Castanea, Dryocosmus 6301
cereals 3377
pathology 953, 2513
Chamaecyparis, colour 702
Cicer
seed, colour 3250
sterility and fertility 2394
yield components 844, 6481
Cichorium, chicory
Alternaria 6330
development and growth 8288
Citrullus, height 7412
Citrus, spines 3037
Cladosporium 4018
Claviceps, alkaloids 4751
Cocos
aminoacids 3045
auxins 3044
Coffea
Ceratocystis 2961
growth period 8078
Hemileia 1346, 3828
Corchorus
colour 8939
seed, colour 7100
shedding 7100
yield components 1297
Corylus 8235
Crambe, hairs 9922
crop plants 11, 8394
fungi 940
pathology 74–75, 1737, 5676
physiology 2487
sterility and fertility 1731, 7651
Cryptomeria, colour 703
Cucumis, cucumber
development, abnormal 7418
embryology 3167
hairs 1555
herbicides 4691
pathology 4690
sex 3168
Cucumis, melon
Aphis 7410
Fusarium 1538
Cucurbita, habit 7414

Genetics *contd.*
Daucus
carotenoids 3958
root, colour 2303
sterility, male 7380
sterility, male, cytoplasmic 723
Desmodium 410
leaf, colour 8875
peroxidase 8875
stem, colour 8875
Elaeis
chlorophyll 7176
photosynthesis 7176
Fagopyrum, heterostyly 5933
Fragaria 1449
anthocyanins 4608
fruit, texture 4606
Glycine
chlorophyll a 4735
colour 5574
flavonoids 10149
growth period 9288
hairs 10149
leaf, shape 829
leaf, size 5573
Phytophthora 2381, 3240
Rhizobium 4739, 6466
Gossypium
Alternaria 469
chlorophyll 9807
glands 9806, 9827
gossypol 2059
hairs 1266, 2058
leaf, colour 8910
leaf, shape 5218
quality, of fibre 7991, 9803
root 7077
seed 455, 6043
seed, texture 9814
sterility, male 2048, 7088
yield components 1267, 6042
Helianthus, sunflower
colour 7173
Plasmopara 8106
sterility and fertility 6157
sterility, male 2982, 3837, 4513, 5314, 7173–7174, 9008
Hemileia 1346
Hibiscus 485
leaf, shape 485
Hieracium 8387
Hordeum 2686, 4346, 4348
amylase 4996, 6868
aneuploidy 9624
chlorophyll 8739
DDT 6868
development and growth 2687–2688
β-diketones 265
enzymes 2693
Erysiphe 92, 2514, 2715, 6889, 8759
esterase 5011–5012, 6868
gibberellins 6879
growth period 8738
height 5007
Heterodera 7862
inflorescence 4344
inflorescence, colour 4345
lysine 1751, 8753, 9632
meiosis 4347
photosynthesis 2703
protein 5000
Puccinia 9642
Rhynchosporium 2713
siduron 4998
stem 5850
sterility, male 6584
Ustilago 2716–2717, 5877, 9640
Ipomoea, Fusarium 2042
Lactuca, Bremia 7406

Lathyrus
fluorescence 2003
sterility, male 6993, 8879
Linum
colour 5231
heterostyly 7096
Melampsora 479, 2890, 6057, 8014
Lolium, yield components 3680
Lupinus 405
alkaloids 5992
flower, colour 6990
leucine aminopeptidase 8870
Lycopersicon 780

Genetics *contd.*
Lycopersicon contd.
calyx 792
β-carotene 779
carotenoids 1577, 7428
chloroplasts 784
citric acid 2340
Cladosporium 4018, 4175
cold resistance 4712
colour 3999
fruit, colour 7428
fruit, number of parts 777, 10108
Fusarium 2343, 3193
germination 2338
habit 3179, 9202, 9252
malic acid 2340
Meloidogyne 8315
organic acids 4700
Phytophthora 3194, 10123
Pyrenochaeta 8314
seed, size 3177
shedding 6404
sterility and fertility 3183, 5531
sterility, male 4007, 6413, 9243
sterility, self 1572, 8309
viruses 3196–3197, 4716
Malus 2188, 8139
colour 8440
Phytophthora 3009
stem 4560
Venturia 608
Matthiola, flower, colour 8377
Medicago 2797, 5152
colour 5150
leaf, colour 3700
ovule, number 8842
spiral habit 5625
Mentha, oil, essential 852, 7519
Nicotiana 1330, 1336, 2440
alkaloids 8992
Cercospora 1338
flower 8057
Fusarium 2117
gynecium 2104
leaf 2104
leaf, colour 2103, 2922, 8991
Meloidogyne 1338
nicotine 6111, 8055
pathology 6125
peroxidase 2114
photoperiodism 8056
pollution, atmospheric 531
protein 3809
Pseudomonas 8070
quality, for smoking 8066–8067
stem 2104
sterility and fertility 2107, 8974
viruses 2953
weather fleck 2935
yield components 6111
Oenothera, L-phenylalanine ammonia lyase 2410
Onobrychis, flower, colour 8865
Oryza 5914, 6911
Chilo 5068
colour 5913
Corticium 5058
endosperm 6916–6917
gibberellins 2454
growth period 321
habit 9669
height 1148, 1158, 2454, 5072, 5907
Nephotettix 5068
Nilaparvata 1947, 5068, 5907
Pachydiplosis 5066
pentachlorobenzyl alcohol 8793
peroxidase 3333
photoperiodism 5072, 5907
Pyricularia 5055, 5058, 7892–7893
seed 5920
seed, size 1149
shedding 327
spikelets, colour 3656, 5100, 9669
starch 3667
sterility, male, cytoplasmic 3662
viruses 5057
Xanthomonas 334, 5058, 5062
yield components 321, 5072
Papaver 9353
flower, colour 4136
height 2969
seed, weight 2969
pathology 7660

Genetics *contd.*
Pennisetum, sterility, male 1134, 8766
Phaseolus 6431
bacteria 2366
Colletotrichum 1538
colour 810
cotyledon cracking 4728
fruit, shape 8330
germination 3211
habit 2370
leaf, shape 2360
methionine 4725
photoperiodism 812
Pseudomonas 5563
quality, for processing 8335
seed, colour 811
shedding 810
Uromyces 2370
viruses 7473

Xanthomonas 9278
Picea, Adelges 1526
Pinus
colour 692
esterase 4637
quality, of timber 7353
Pisum 8380–8381, 8385, 8388
aminopeptidase 837
Aphanomyces 2391
fasciation 5583
Peronospora 7234
peroxidase 7506
seed, number 4079
Poa, apomixis 8812
Populus 5456
growth period 6315
habit 7343
Hypoxylon 6318
Prunus, peach
corolla 2217
flower, colour 9985
fruit 2217, 9985
fruit, colour 2217
leaf 8180
Meloidogyne 6234
sterility, male 8181
Prunus, plum
fruit, colour 6218–6219
fruit, shape 6219
Pseudotsuga 5482
Puccinia 205, 3515, 3532
colour 2986
Pyrus
height 3874
leaf, colour 7221
phenols 7255
Raphanus
flower 6349
leaf, colour 10076
leaf, weight 6348
root, weight 6348
sterility, male, cytoplasmic 725
Rhizobium, nitrogenase 5549
Ribes, black currant, viruses 7296
Ribes, gooseberry, *Sphaerotheca* 3949, 5406
Rubus, raspberry 7294
glands 3050
Saccharum
stem 6071
viruses 8037
Secale
alcohol dehydrogenase 209
chlorophyll 1052
habit 3538
height 1824, 3534
inflorescence 3538
sterility, male 211, 3550
wax 3538
Secale × *Triticum*
Puccinia 2543
sterility and fertility 3427
wax 5725
Sesamum 3834
seed, colour 1360
Solanum, egg plant
fruit, colour 3198
height 3198
leaf, shape 3198
Pseudomonas 5540
yield components 4717
Solanum, potato
calyx 9775

Genetics *contd.*
Solanum, potato *contd.*
colour 2016
height 9766
Heterodera 2866, 8900
meiosis 2845
Phytophthora 1249–1250
Pseudomonas 2029
quality, of edible product 2856
Synchytrium 1248
Tetranychus 445
tuber, colour 9766
tuber, shape 3735
viruses 5212, 8439, 8904
Sorghum 296
auxins 9655
cyanogenetic compounds 1144
endosperm 1139
gibberellins 9655
growth period 1914, 9655
leaf 9654
Puccinia 5031, 9665
Schizaphis 1146
Sclerospora 9663
seed, colour 5904
sterility, male 7580
viruses 2731
yield components 295
Spinacia
sterility, male 3974
sterility, male, cytoplasmic 7399
sterility, male 7538
sterility, self 3290
Theobroma
Ceratocystis 5290
Phytophthora 4500
seed, colour 1347, 2963
sterility and fertility 5289
Thymus, sterility, male, cytoplasmic 8369
Trifolium, crimson clover, colour 402
Trifolium, minor species 5980
Trifolium, red clover
Kabatiella 8859
sterility, self 8857
viruses 1995
Trifolium, white clover, cyanogenetic compounds 2815
Triticum 162, 9415
alcohol dehydrogenase 1763
awns 8631
chomosomes, pairing 2559
desynapsis 6700
enzymes 4837
Erysiphe 92, 2514
esterase 8554
growth period 954, 1769
height 118–119, 961–962, 2530, 6696, 7684, 7703, 8583, 9413, 9450
hybrid chlorosis 2531, 3498, 5772, 6695
hybrid necrosis 1790, 2530–2531, 3498, 5714, 5772, 6695, 9492
inflorescence 976–977, 5769, 6719
leaf 6699
leaf, size 6726
ligule 6699
malate dehydrogenase 8554
Mayetiola 5785
protein 1761, 5762, 5766
pseudo-black-chaff 2590
Puccinia 179, 181, 183–185, 1042, 1807, 1810–1811, 1813, 2593, 2599, 3514–3515, 4260, 4262, 4839, 4910, 5798, 6771–6773, 6779, 7763, 7766–7767, 8420, 8631–8632, 9505, 9507, 9510, 9512, 9514
quality, for milling and baking 3440
seed, colour 120, 9447
seed, weight 2533, 4210
spikelets 2535
spikelets, number 4839
spiral habit 5625
spring and winter habit 4211
sterility, male 4865, 5749
sterility, male, cytoplasmic 5084, 6742
Ustilago 1041
water balance 1768
yield components 979, 1769, 1792, 3456, 4247
Ulmus, peroxidase 1491
Ustilago 2718
Vaccinium, fruit, colour 7297
Genetics *contd.*
Verticillium 471
Vicia, broad bean
colour 3201
flower, colour 4025
Vicia, vetch
flower, colour 5983
seed 7951
seed, colour 5983, 9742
seed, shape 5983
Vigna
flower 5568
flower, colour 819, 4047
fruit 5568
fruit, size 819
leaf, shape 819
seed 2371, 5568
seed, colour 7584
viruses 824, 9282
Vitis
andrecium 2255
fruit, colour 4620
fruit, size 9173
Plasmopara 3912
seed, number 6288
seed, size 6288
sex 2255
Zea, maize 3574
adenosine disphosphate glucose pyrophosphorylase 9592
alcohol dehydrogenase 2635
aminoacids 8710
anthocyanins 6822
ash 2649
catalase 1838
cell death 8722
cell division 9573
Cephalosporium 6847
chromosomes, accessory 1853
cold resistance 2658
colour 1840, 1846, 9559
endosperm 213, 8691
enzymes 1068
habit 9561
height 2634
Heliothis 1103
leaf 6583
lignin 1067
ligule 1078
lipids 5816
lysine 2636, 4970
malate dehydrogenase 1845
pollen 6806
protein 6837–6838
quality, for nutrition 2652
ribonuclease 2653
seed 1862, 1867
seed, colour 8677
Spodoptera 1102
sterility, male 3586, 3588, 4959, 9578, 9588
Trichometasphaeria 251
viruses 1107, 8730
Zea, popcorn, sterility and fertility 4337, 4991

Genome analysis 899, 3438
Aegilops 4912
Aegilops × *Triticum* 2511
Agropyron 1188, 5956
Agropyron × *Elymus* 5956
Agropyron × *Triticum* 2511
Arachis 8109
Avena 1048, 2613, 2616
Carthamus 5319
cereals 3379
Coffea 6133
Elymus 375–376, 1189, 5956, 6958
Haynaldia × *Triticum* 2511
Hordeum × *Taeniatherum* 2691
Lolium 2768
Paspalum 8487
Secale × *Triticum* 2511
Trifolium, white clover 4419
Triticum 143, 997, 1789, 8908
Genotrophs, *Linum* 2885–2887, 5230, 8930
Genotype × environmental interaction 867, 871, 1629
Aegilops 6780
Arachis 4521
Avena 1814–1815, 1817
cereals 945
Genotype × environmental interaction *contd.*
crop plants 6656
Dactylis 871
Festuca 5137
Festuca × *Lolium* 1183
Fragaria 10012
Glycine 2375, 5575, 6460
Gossypium 1257, 1267
Helianthus, sunflower 9913
Hordeum 272, 3385, 4342, 4997, 5851, 7842
Nicotiana 2923, 7637
Oryza 318
Phalaris 9708
Phaseolus 3208
Pinus 3135, 10154
Pisum 7503, 9306
Sorghum 8774, 9652
Trifolium, Alsike clover 7948
Triticum 119, 3385, 4214, 4291, 4838, 5759, 8552, 8589, 9492
Vicia, broad bean 5550
Vicia, vetch 8863
Vigna 5545
Zea, maize 1069, 1843, 1849, 3573, 4291, 4314, 6809–6810, 6824, 7805, 8710
Genotype × environmental interaction, technique
crop plants 7637, 8499
Sorghum 1137
Zea, maize 9562
Geographical races
Abies 698, 1527, 4633
Acer 2281–2282
Cedrela 8245
Fagus 685
Larix 5479–5480, 7364
Picea 673, 1486, 2289, 4645, 4647, 5474, 6325, 7361, 8258
Pinus 691, 693–694, 696, 1517, 2284, 3138, 4633, 4639–4640, 4644, 5469–5470, 5472, 6306, 8245
Prunus, cherry 4582
Pseudotsuga 701, 4633, 6307, 7365–7366
Quercus 3939
Thea 8074
Geography
Brassica, oil crops 6148
Hordeum 7853, 8761
Solanum, potato 7011
Geranium (*see Pelargonium*)
Germination
Arachis 7191
Avena 6670
Beta 6090
Beta, sugar beet 509, 5261, 6104, 8958, 9848, 9870–9871
Cenchrus 5138
Cicer 9312
Citrus, mandarin 5386
Cucumis, cucumber 1558
Glycine 1612, 7482, 9289
Gossypium 6043
Helianthus, sunflower 6161
Hevea 7209
Hordeum 269, 5865, 6670
Lactuca 8284–8285, 10092
Linum 934
Lycopersicon 2336, 2338, 4154, 4711, 10117
Medicago 4413, 5162
Nicotiana 5270
Oryza 4383, 4388–4389, 5108, 5115, 6928
Papaver 934
Phaseolus 1595, 3211, 3215
Phoenix 4598
Picea 3140
Pinus 3136
Pisum 4744
pome fruits 6194
Prunus, cherry 4146, 9124, 9980
Pyrus 3011
Secale 4925, 9536
Secale × *Triticum* 4852–4853
Sesamum 2137
sodium chloride, *Carthamus* 1370
Sorghum 4373
stone fruits 6194

Germination *contd.*
Trifolium 5161–5162
Trifolium, red clover 8855
Trifolium, subterranean clover 8861
Triticum 147, 1007, 1013, 6764, 9459
Vicia, vetch 9743
Vitis 3922
Zea, maize 67, 247, 1097, 4315, 5827, 7819, 9604
Germination, technique, crop plants 67
Germplasm banks (*see* Plant collections)
Gibberella
Gossypium 1283
Saccharum 1311
Triticum 973, 1801, 4256, 4897–4898, 6587, 7759
Zea, maize 2666, 2668, 4329, 4985, 6848, 7661
physiological races 2669
Ginger (*see Zingiber*)
Glands
Gossypium 473, 2059, 6033, 8450, 8909, 9806, 9815, 9827
Rubus, raspberry 3050
Glass and plastic, cultivation under
Allium, onion 3147
Capsicum 2171, 3954, 8112
Citrullus 6380
Cucumis, cucumber 3170, 3957, 4687, 6392, 8293, 10098
Cucumis, melon 3981, 6380
Lactuca 1550, 3159–3160, 3978, 6327, 7402
Lycopersicon 787, 3957, 3993, 3995, 6419, 7429
Solanum, egg plant 3954
vegetable crops 3957, 6328
Globe artichoke (*see Cynara,* globe artichoke)
Gloeocercospora
Sorghum 1753
Zea, maize, physiological races 2663
Gloeosporium, Vitis 5445
Glomerella
Citrus 1421
Coffea 3829
physiological races 541
Hevea 2996, 9026
Lycopersicon 1582
Solanum, egg plant 4719
Glycine
genetics, chlorophyll a 4735
breeding
Canada 826
Mexico 1603
Poland 8339
USA 3227, 4049
Cadra 834
centres of origin 1617, 4065
Cephalosporium 3239, 6467
chemicals, as nutrients
iron 4063, 9294
miscellaneous 7483, 7486
nitrogen 3230, 6465
phosphorus 3230, 6465
zinc 3230
chemicals, as plant constituents
aminoacids 4738, 9287
calcium 4061
carbohydrates 3238
chlorophyll a 4735
enzymes 830
flavonoids 10149
magnesium 4061
methionine 8316
miscellaneous 3233, 3240
nitrate reductase 1611
nucleic acids 2380
oil, fatty 615, 1615–1616, 2376, 3227, 3235, 5569, 9287, 9295
oil, fatty, technique 2974
phosphorus 4061
phytoalexin 7490
phytoalexins 7490
potassium 4061
protein 1614, 1616, 2376, 3227, 3235, 4062, 4064, 4738, 5569, 5578, 6449, 8316, 9287, 9295, 10147–10148
sugar 4738, 9295
chemicals, cytological effects
caffeine 3229
miscellaneous 4057

Glycine *contd.*
chemicals, general effects
abscisic acid 7482
2-chloro-4-ethylamino-6-isopropylamino-1,3,5-triazine 2377
manganese 3236
ozone 1622
2-s-butyl-4,6-dinitrophenol 6464
chemicals, mutagenic effects
diethyl sulphate 10143
ethyleneimine 10143
miscellaneous 4057
mitomycin C 10146
N-nitroso-*N*-ethylurea 10143
chloroplasts 4735
chromosomes, morphology 1610
chromosomes, number 6463
climate 1620–1621, 5582
cold, effect of 4737
colour 5574
competition 4063, 10150
crossing over 3229
density of stand 9368
development and growth 5577, 9290
Epilachna 4069
epistasis 5573
experimental designs 3234, 10150
fertilization, sexual 4737
flowering 9292–9293
fungi 1623
γ rays 1609, 6455, 9287, 10148
genetics
chlorophyll 4735
colour 5574
flavonoids 10149
growth period 9288
hairs 10149
leaf, shape 829
leaf, size 5573
Phytophthora 2381, 3240
Rhizobium 4739, 6466
genotype × environmental interaction 2375, 5575, 6460
germination 1612, 7482, 9289
grafting 1613
growth period 1611, 1615, 3235, 4059, 4736, 5569, 5581–5582, 6455, 6458, 7485, 9288, 9292–9293
habit 829, 3231–3232, 6453–6454, 9290, 10145
hail 9297
hairs 835, 9295, 10149
harvesting 3235
heat and drought resistance 7484, 7487, 10151
height 4736
Heliothis 8467
heritability 829, 3232, 4736, 5577, 6453–6454, 10145, 10148
Heterodera, physiological races 9298–9299
heterosis 6453
history and evolution 1614, 1618, 6463
hybrid varieties 5576
hybridization, interspecific 5577–5578
irrigation 4066
land races 4065
leaf 6456, 10149
leaf, anatomy 8345
leaf, shape 829
leaf, size 5573
light, effect of 9292
lodging 3227
longevity 2351
Macrophomina 830
meiosis 1610
Meloidogyne 6469, 9300
mitotic recombination 3229, 10146
mixtures of crops or genotypes 10150
multiple genes 5573, 5577
mutation 4735
mutation, induced 1609, 6455–6456, 7481, 9287, 10143, 10148
neutrons 6456
pathology 8520
Peronospora 4067
physiological races 831
photoperiodism 2478, 4059, 5577, 6458, 9293
photosynthesis 4060, 7484
physiology 3230
Phytophthora 833, 1604, 1624, 3240, 4068, 7479, 9292

Glycine *contd.*
Phytophthora contd.
physiological races 2381, 6468, 7490
Phytophthora, technique 832
plant collections 7478
plant introduction 6449
Plathypena 835
pleiotropy 9292
pollen 4737
pollination 1608
polyembryony and twinning 9291
Pseudomonas 4067
Pythium 3238
quality, for nutrition 3233, 6449
radiation 4738
respiration 7484
Rhizobium 1976, 2380, 4051, 4739, 8347
physiological races 3236–3237, 4058, 6466, 6964, 7488, 8346
root 6469
seed 834, 4064
seed, colour 6457
seed production 6452
seed, weight 1616
selection, artificial 6448, 9284
shedding 3227
sowing and planting date 4066, 5580–5582, 7485
stem 5577
sterility, male 1607, 5576
succession, crop 2491, 4066
symbiosis 2380
taxonomy 1610, 6463
temperature, effect of 4058, 6458, 7485, 9289
Tetranychus 4067
toxic soils 3236
variation 1618–1619, 5579, 9296
varieties
Canada 4055–4056
India 8344
Mexico 1603
Rumania 6452
S. Korea 4053
USA 926, 1604–1607, 1714, 4054, 7479–7480, 8467, 9375
USSR 3200
varieties, classification 6462, 10149
variety trials 10144
Argentina 5570
Brazil 6451, 9717
Bulgaria 6449
Canada 2373
India 8341–8342
Italy 4050
New Zealand 4734
Rumania 4051, 5572, 6450, 8340, 9285
Thailand 7572
Tunisia 4052
Uganda 2478
USA 827–828, 2374, 3228, 4733, 8343, 9286
USSR 7478
Venezuela 5571
viruses 3239, 4067, 6467, 8467
water balance 1613, 7484
X rays 6456, 7481
Xanthomonas 7489
yield components 1619, 2378–2379, 3232, 6448–6449, 6459–6462
***Glycine*: development and growth** 6457
***Glycine*, pollution, atmospheric** 1622
Gnomonia, Juglans 5448
Gooseberry (*see Ribes,* gooseberry)
Gossypium
breeding, Australia 6595
agronomy 1263, 8371
Alternaria 468–469
Alternaria 3766
Amrasca 6051
anatomy 467
aneuploidy 2047, 3758
Anthonomus 472
Aphis 3767
Apis 2065
back crossing 1273
bracts 2047
breeding 7074
Australia 6595
Azerbaijan SSR 7057
Bulgaria 8371
Cameroon 2045
Chad 2044, 8909

Gossypium contd.
breeding *contd.*
India 452
Ivory Coast 2047
Kirgiz SSR 7056
Malagasy Republic 2050
Malawi 7607
Mali 2046
Nigeria 8906–8907
Pakistan 7987, 8912
Portuguese East Africa 2873
Rhodesia 5644
Sudan 9798
Tajik SSR 6637, 7055
Tanzania 7070–7071
Togo 2048
Turkmen SSR 3753, 7054
Ukrainian SSR 7058
Upper Volta 2049
USA 453, 2054, 9798
USSR 1701, 2053, 7048–7049, 7073, 8911, 9798
Uzbek SSR 2055–2056, 7053
Cerotelium 8910
chemicals, as nutrients
boron 7085
nitrogen 2060, 7084
phosphorus 2060, 6041, 7084
potassium 6047, 7084
chemicals, as plant constituents
aldolase 9817
carbohydrates 7068
catalase 4455
chlorophyll 9807
esterase 4455
gossypol 472–473, 2059, 3763, 9822, 9827
growth regulators 7997
histidine 2062
leucine aminopeptidase 4455
5-methylcytosine 7996
miscellaneous 6051
naphthaldehydes 7091
nucleic acids 7996
nucleotides 9811
oil, fatty 5220, 7086, 9810, 9816–9817
phosphatase 9817
phosphorus 8002
protein 1288, 1288, 8000, 8918
chemicals, cytological effects, colchicine 7996
chemicals, fertility and sex, effects, thiamine 7992
chemicals, general effects
CCC 4456
colchicine 7998
endopolygalacturonase 8926
fluometuron 8466
growth regulators 1285, 8919
chemicals, mutagenic effects
maleic hydrazide 459
miscellaneous 7065
N-nitroso-*N*-ethylurea 3757
chloroplasts 1278
cold, effect of 7998
colour 9809
combining ability 456, 1265, 1284, 2061, 8915–8916
cytomixis 7081
density of stand 5224–5225, 8924
development, abnormal 4456
development and growth 1283, 6039–6040, 7999, 9805
diallel analysis 7077
embryology 457
epidermis 8006
epistasis 6042
experimental designs 4457
fruit 463
fruit, number of parts 1280, 3759
fruit, size 2063
fungi 8006, 8008
Fusarium 1264, 1287, 2880–2881, 3763–3764, 4458, 5227, 6041, 7092–7093, 8450, 9824
physiological races 470, 2069, 6049–6050
γ rays 458, 1275–1277, 1279, 3757, 4454, 7066, 7079–7080, 7082, 9808, 9811
genetics
Alternaria 469
chlorophyll 9807

Gossypium contd.
genetics *contd.*
glands 9806, 9827
gossypol 2059
hairs 1266, 2058
leaf, colour 8910
leaf, shape 5218
quality, of fibre 7991, 9803
root 7077
seed 455, 6043
seed, texture 9814
sterility, male 2048, 7088
yield components 1267, 6042
genotype × environmental interaction 1257, 1267
germination 6043
Gibberella 1283
glands 473, 2059, 6033, 8450, 8909, 9806, 9815, 9827
growth period 463, 1257–1258, 1268, 1271, 2063, 5218, 7087, 7998, 8002, 9818, 9820
habit 7087, 7999
hairs 473–474, 1266, 1275, 2058, 6051
haploidy 7996
heat and drought resistance 6048
height 1271, 7087
Helicthis 473–474, 9827
heritability 2047, 5219, 6031, 7077, 9803
heterosis 456, 1267, 1271, 7068, 7077–7078, 7994, 9805
history and evolution 2067, 6045, 8004, 8923
hybrid varieties 8910
hybridization 2060–2061, 4453
hybridization, graft 7057
hybridization, interspecific 55, 457, 1269–1270, 1272–1274, 2047, 2884, 6038, 7062–7064, 7068, 7078, 7993–7994, 9804–9805
hybridization, interspecific, technique 7992
hybridization, wide 7061
inbreeding 1281
inheritance of acquired characters 7998
insects 5228
leaf 467, 3760, 8000, 8910
leaf, anatomy 6046
leaf, colour 1283, 8910
leaf, shape 1283, 5218
leaf, size 7083
light, effect of 9819
linkage 2047–2048, 9807, 9809
matrocliny 3756
meiosis 7081, 7993, 8910, 9804
mitochondria 8916
mixtures of crops or genotypes 71
mutation 461, 1278, 9808
mutation, induced 458–459, 1260, 1275–1277, 2062, 3757, 3764, 6048, 7065–7067, 7079–7080, 9807, 9809–9811
neutrons 1275, 9809
pathology 8466, 8522, 8925
Pectinophora 8927
Phakopsora 9825
Phakospora 2883
photoperiodism 8910, 9812
photosynthesis 461
physiology 7082
plant collections 55, 7047
plant introduction 6034
Platyedra 9828
pollination 1281, 2065, 6577, 7994, 8001
polyhaploidy 7996
polyploidy 1270, 1274, 6038, 7063–7064, 7081, 8910
Pseudatomoscelis 474
quality, of fibre 464, 1258–1259, 1285, 2047, 2066, 2873, 2879, 3761–3762, 5222–5223, 6044, 6047, 7067, 7076, 7089, 7987, 7991, 8002, 8922, 9803, 9818
radiation 2062, 9807, 9810
Ramularia 9826
red leaf 8005
root 7077
Rotylenchulus 5227
salinity 5226
seed 455, 462, 1266, 6043, 7086, 8920
seed production 1286
seed, texture 9814

Gossypium contd.
selection, artificial 454, 1261, 3752, 6030, 6032
shedding 3760, 5221, 7997
sowing and planting date 9820
sterility and fertility 1269, 7064, 7993, 9804
sterility, male 460, 2048, 7088, 8910
sterility, male, cytoplasmic 8466
stomata 463
taxonomy 6046, 8000
Thielaviopsis 2880
Thrips 3767
variation 1272, 4452, 6030–6031
varieties 2878
India 1260, 5217, 6036–6037, 7988–7989, 8922
Pakistan 2876
Paraguay 8913–8914
Portuguese East Africa 2877
Syria 7990
USA 1264, 1713, 3754, 8466, 8910
USSR 2053, 3755, 7049
Uzbek SSR 7050–7052, 9802
varieties, classification 8918, 9813
variety trials 7074, 7076
Kenya 7075
Malawi 5216
Nigeria 8907
Pakistan 9801, 9816
Portuguese East Africa 2874, 5215, 9800
Spain 1262
Tanzania 7072
The Gambia 2875
USA 2057, 6035, 9799
USSR 6034, 7059
Venezuela 2465
Zambia 6561
Verticillium 471, 1288, 2052, 2068, 2880, 2882, 2884, 3764, 4458, 7058, 7060–7061, 7091, 8007, 8910, 9822
physiological races 3765, 7090, 8926
Verticillium, technique 9823
viruses 2044
water balance 8921
Xanthomonas 466–467, 1264, 7058
physiological races 465, 8908
yield components 1257–1258, 1261, 1263, 1267, 1281, 1284, 2064, 3752, 5219, 5225, 6039–6040, 6042, 8003, 8924, 9815

Gourds (*see* Cucurbits)
Graft hybridization (*see* Hybridization, graft)
Grafting
Beta, sugar beet 511
Capsicum 3332, 5332, 8120
Cryptomeria 7368
Glycine 1613
Juniperus 707
Larix 5478
Lycopersicon 4003
Malus 610, 3006, 3869, 4558
Pinus 3946
Pisum 10163
Prunus, almond 9132
Prunus, apricot 9098
Prunus, cherry 6226
Prunus, peach 9132
Pseudotsuga 9191
Vitis 3073
Grain (*see* Seed)
Gram (*see Cicer; Phaseolus*)
Grape (*see Vitis*)
Grapefruit (*see Citrus,* grapefruit)
Grapholitha, Prunus, plum 8171
Grasses
apomixis 6940
breeding
German Democratic Republic 5935
India 8803, 9316
New Zealand 4401
Poland 8802
UK 1949, 1953, 4402
Ukrainian SSR 9683
USA 5946
White Russian SSR 3675, 8805
breeding, technique 6931
chemicals, as nutrients, nitrogen 8808–8809

Grasses *contd.*
chemicals, as plant constituents
chlorophyll 8808
nitrogen 8808–8809
chromosomes, number 354, 1951, 5128, 5945
cold, effect of 8806
cold resistance 5946
development and growth 10176
Eurygaster 9691
evolution, general theory 2759
flooding 350
heat and drought resistance 348
Helminthosporium 9689
history and evolution 6942
meiosis 354, 1951
mutation, induced, technique 8806
pathology 2760
photosynthesis 2759, 6942, 8810
physiology 355
plant collections 348–350, 7901
plant introduction 382, 6932, 9684–9685
Pleospora 9689
pollination, technique 1950
polymorphism 2757
polyploidy 6940
population genetics 2757
Puccinia, physiological races 3677
Pyrenophora 9689
quality, for nutrition 356–357, 1949, 4400, 4402
Sclerotinia 1173
seed 8806
selection, artificial 4400
taxonomy 361
Ustilaginales 361
varieties
Australia 6938–6939
USA 1172, 7903
USSR 5936
variety trials
Canada 353
India 1171
Norway 5124
Taiwan 352
UK 351
viruses, physiological races 5129
yield components 355

Grazing
Dactylis 7910
Lolium 4406, 6954
Lotus 2002
Trifolium, white clover 2817
Groundnut (*see Arachis*)
Growth (*see* Development and growth)
Growth period 6457 (*see also* Spring and winter habit)
Abies 698
Agropyron × *Triticum* 7711
Allium, onion 6457, 727, 8426
Apium 8286
Arachis 5654, 9919
Avena 204, 1752, 9518
Beta, sugar beet 9871
Brassica, cabbage 8276
Brassica, cauliflower 1548–1549, 4128, 5495

Growth period *contd.*
Brassica, oil crops 5302
Brassica, rape 8093
Cajanus 8365
Cannabis 8935
Capsicum 572, 3848
cereals 1752
Citrullus 6380, 6383, 8462
Coffea 8078
Colocasia 5263
crop plants 8504
Cucumis, cucumber 6389, 7641, 10098
Cucumis, melon 748, 6380
cucurbits 6379
Cydonia 9056
Daucus 6345
Dolichos 5176, 6593
Fagopyrum 4399
Festuca 9705
Fragaria 2244, 7299
Glycine 1611, 1615, 3235, 4059, 4736, 5569, 5581–5582, 6455, 6458, 7485, 9288, 9292–9293
Gossypium 463, 1257–1258, 1268, 1271, 2063, 5218, 7087, 7998, 9818, 9820
temperature, effect of 7069
Helianthus, sunflower 7661, 8099–8100
Hordeum 2685, 5859, 5863, 8738
Lactuca 743
Lavandula 9925
Linum 2077, 4459, 8928, 8931
Lolium 2769
Lupinus 1221
Lycopersicon 789, 2337, 3175, 3185, 4696, 6395, 6415, 7429, 7641, 10110
Malus 3860, 5346, 5355, 6205, 9068
Medicago 1194
Onobrychis 5988
Ornithopus 8880
Oryza 320–321, 1147, 1690, 2463, 2742, 5033, 5038, 5077, 5105, 5923, 6915, 6921, 7661, 7888, 7891, 9674
Panicum 8762
Phaseolus 1597, 2362, 2366, 5559, 6439, 6443, 9278
Phoenix 1433, 5399
Picea 8258
Pisum 840, 1632, 1635, 2382, 2386
9937, 10167
Populus 6315
Prunus, apricot × *Prunus,* plum 8166
Prunus, cherry 3023, 3025, 5376, 9120, 9976
Prunus, peach 624–625, 9133
Prunus, plum 618, 5373, 9110, 9971
Psophocarpus 6486
Pyrus 3010, 3013, 4569, 5346, 6207
Ribes, black currant 3054
Ribes, red currant 3054
Saccharum 1310, 6073
Secale 3534
Secale × *Triticum* 7706, 7711
Sesamum 550
Solanum, potato 1231, 1247, 2031, 2862, 5184, 6021, 7001, 7018, 7661, 8892, 9767, 9769
Sorghum 1138, 1914, 5888, 5897, 9655
Spinacia 4129
Theobroma 7156
Trifolium, red clover 5165
Triticum 954, 994, 1769, 1792, 2536, 2566, 4198, 4227, 4233, 4828–4829, 4867, 4870, 4876, 5711, 6728, 7596, 9483
Vicia, vetch 1210
Vitis 3081, 3096, 3098, 3912, 3924, 4616, 5432, 5435, 7661, 9174
Zea, maize 234, 1058, 2630–2631, 2644, 3557, 3585, 4311, 4975, 5828, 5830, 6583, 6798, 7661, 7805, 8457, 8686, 8727, 9558, 9579–9580, 9583, 9605
Zea, sweet corn 7641
Growth period, technique, crop plants 9377
Guava (*see Psidium*)
Gynecium
Brassica 8272
Capsicum 5330
cereals 8528
Hordeum 1898

Gynecium *contd.*
Lycopersicon 3187
Nicotiana 2104
Onobrychis 8865
Pennisetum 8765
Prunus, plum 1413
Secale 7787, 8436
Secale × *Triticum* 8436
Solanum, egg plant 9260
Solanum, potato 5206
Gynecium, number of parts, *Vitis* 10039
Gynecium, size
Prunus, apricot 7260
Prunus, cherry 7260
Prunus, peach 7260
Prunus, plum 7260
Secale 7673
Secale × *Triticum* 7673
Triticum 7673
Zea, sweet corn 8731
Habit
Arachis 2166–2167, 4523, 7183, 7190, 9918
Betula 10058
Cajanus 3252, 4749, 8360–8363
Capsicum 7203
Carthamus 9915
Citrullus 3983, 8462
Cucumis, cucumber 8463, 9201
Cucumis, melon 8461
Cucurbita 756, 7414
Dolichos 6593
Glycine 829, 3231–3232, 6453–6454, 9290, 10145
Gossypium 7087, 7999
Larix 1482
Lens 2395
Leucaena 5943
Lolium 1963, 4408, 6956
Lycopersicon 1567, 3176, 3179, 9202, 9252
Malus 7220, 9066
Medicago 392, 2802
Oryza 4386, 9669
Phaseolus 2370, 3222
Picea 9190
Pinus 1520
Pisum 6474–6475, 7506
Prunus, cherry 4582, 8175
Ribes 8442
Ricinus 9911
Secale 3538
Secale × *Triticum* 7713
Sorghum 9654
Thuja 1533
Trifolium, red clover 5165, 7943
Vicia, broad bean 2356
Vicia, vetch 9744
Vigna 6447
Zea, maize 2657, 9561
Haemanthus, cell division 881
Hail, *Glycine* 9297
Hairs
Avena 8639
Crambe 9922
Cucumis, cucumber 1555
Glycine 835, 9295, 10149
Gossypium 473–474, 1266, 1275, 2058, 6051
Poa 2763
Thea 8075
Hairy sprout, *Solanum,* potato 1247
Hapalosphaeria, Rubus, raspberry 9043
Haploidy 1676, 1682, 2441, 2457, 3288, 5615, 7563, 8396, 8410, 9325, 9327
Aegilops 3526
Agaricus 2404
Allium, minor species 6342
Arabidopsis 3287
Asparagus 7233, 9936
Atropa 578
Brassica, rape 7166
Capsicum 574, 2170
crop plants 2456, 8397
Datura 4112
Elymus 5683
Festuca × *Lolium* 8438
Gossypium 7996
Hordeum 4347, 8744
Linum 7095
Lycopersicon 6342

Haploidy *contd.*
Nicotiana 526–527, 2111, 2438, 2440, 4492, 5271, 6116, 6118, 7139–7140, 7229, 8060, 8062, 8969, 8984, 8992
Oryza 1929, 5924
Petunia 2439
Solanum 26, 3291, 6528
Solanum, potato 435, 2018, 2843, 5202, 6009, 7974, 9770–9771
Theobroma 6141, 7157
Thuja 706, 6326
Triticum 2575
Ustilago 4823
Zea, maize 232, 1077, 4951–4952, 6817, 6820, 6827, 7808, 8693–8696, 8699–8701, 9571, 9574–9575
Zea, sweet corn 8731, 9613
Haploidy, technique
crop plants 7554
Datura 7554
Hordeum 8745
Nicotiana 889
Zea, maize 233
Hardiness (*see* Cold resistance)
Harvesting (*see also* Mechanical injury)
Fragaria 3061
Glycine 3235
Nicotiana 8991
Phaseolus 4038
Triticum 5763
Harvesting, mechanical
Allium, onion 10071
Brassica, cauliflower 5495
Capsicum 7203
Cucumis, cucumber 10071
Cucumis, melon 8461
Fragaria 3063, 8443
fruit crops 1395
Lactuca 6327
Lycopersicon 1580, 5516, 7441–7442, 10071, 10107
Phaseolus 2363, 6440, 7373, 9274
Pisum 10071
Rubus, raspberry 9148
Solanum, potato 1245, 8888, 8893
Vitis 4623
Zea, maize 1091
Haydonia, pollen 805
Haynaldia* × *Triticum
genome analysis 2511
history and evolution 2511
hybridization, intergeneric 2511
Hazel (*see Corylus*)
Heading broccoli (*see Brassica,* cauliflower)
Heat and drought resistance
Arachis 5654, 7190–7191
Citrus, lemon 9990
Coffea 2960, 8083
crop plants 5675
Eleusine 5023, 5651, 5651
fruit crops 590
Glycine 7484, 7487, 10151
Gossypium 6048
grasses 348
Helianthus, sunflower 8104
Hordeum 4357, 4995, 6672, 6876, 7857, 9636
Lactuca 4676
leguminous forage crops 348
Linum 4459
Lycopersicon 8453
Malus 1405, 9957
Medicago 1981
Oryza 5033, 5090–5091, 5093, 5117, 6621
Panicum 1907
Pennisetum 6899
Phaseolus 5559
Pisum 840
Prunus, plum 4576
pulses 5547
Pyrus 4570, 7256
Ribes, black currant 3054
Ribes, red currant 3054
Ricinus 4507
Saccharum 8035
Solanum, egg plant 9260
Solanum, potato 5190
Sorghum 4369, 4374, 6908
Thea 3823, 8073
Trifolium, red clover 5976
Heat and drought resistance *contd.*
Triticum 169, 1038, 3502, 3506, 4117, 4250, 6672, 7754, 8529, 8533, 8550, 8606, 8610–8614, 8616–8619, 9462, 9490–9491, 9493, 9496
Vitis 10046
Zea, maize 2631, 4282, 5840, 6798, 7826, 8533, 9606
Heat and drought resistance, technique, *Triticum* 3497, 6767, 8609, 8615
Heat, effect of (*see also* Temperature, effect of)
Beta, sugar beet 7124
Brassica, Brussels sprouts 9206
Lactuca 10092
Lycopersicon 6406
Nicotiana 8990
Ornithopus 4427
Oryza 1921, 4383
Zea, maize 234, 4956
Height
Agropyron × *Triticum* 987, 3437
Avena 1047
Beta, sugar beet 5256
Betula 7338
cereals 8528
Citrullus 7412
Corchorus 1297
Cucumis, cucumber 762, 7420
Glycine 4736
Gossypium 1271, 7087
Helianthus, sunflower 8100
Hevea 3852
Hordeum 1750, 1884, 4349, 4353, 5007, 5013, 6549, 6879, 7859, 8743, 8750, 9629
Linum 8931
Lycopersicon 2334, 3181, 5528, 9243
Malus 7249
Medicago 9719
Oryza 1147–1148, 1155–1156, 1158, 1942, 2454, 5039, 5059, 5072, 5075–5076, 5907, 5918–5919, 5927, 7881, 7887, 9669
Papaver 2969
Pennisetum 5882
Pinus 8256
Pisum 2455, 4741, 7500, 7506
Pseudotsuga 5481
Pyrus 3874
Ricinus 7169
Saccharum 7107
Secale 212, 1824, 3534, 4271, 5799, 7781, 8655, 9530
Secale × *Triticum* 131
Sesamum 550
Solanum, egg plant 3198
Solanum, potato 9766
Sorghum 1138, 1689, 7593, 9653
Thuja 1533
Triticum 97, 99, 118–119, 955, 959–962, 977, 977, 991, 993, 1036, 1044, 1750, 1777, 1792, 2518, 2530, 2552, 3451, 3465, 4191, 4230, 4233, 4855, 4874, 5698, 5700, 5753, 6696, 6736–6737, 6741, 6764–6765, 7596, 7678, 7684–7685, 7701, 7703, 7722, 7736, 7738, 8539, 8555, 8583, 8592, 9413, 9450, 9486–9487, 9515
Zea, maize 2634, 4935, 4952, 7797, 7801, 7806–7807, 8528, 9558, 9587
***Helianthus,* Jerusalem artichoke**
breeding, Italy 9194
cell division 8403
chemicals, as plant constituents
enzymes 8403
nucleic acids 8403
hybridization, graft 9006
***Helianthus,* Jerusalem artichoke × *Helianthus,* sunflower**
hybridization, graft 6160
hybridization, interspecific 1540, 6160, 7170, 7384, 9009
pathology 7170
Plasmopara 9009
sterility, male 6160
***Helianthus,* sunflower,** breeding, USSR 1361
***Helianthus* sunflower,** breeding, USSR 6152
***Helianthus,* sunflower**
breeding, USSR 8095
cell division 554
***Helianthus,* sunflower** *contd.*
chemicals, as plant constituents
anthocyanins 8096
chlorogenic acid 2140, 4791
enzymes 6162
linoleic acid 9901, 9913
miscellaneous 9007
nucleic acids 554
oil, fatty 1366, 1368, 2985, 4511, 4791, 5316, 6161, 7171, 7603, 8102, 9900–9901, 9912–9913
oil, fatty, technique 2974
oleic acid 9901, 9913
peroxidase 4512
phenols 558
protein 1367, 4813
chemicals, mutagenic effects
miscellaneous 5316
N-nitroso-*N*-methylurea 1363, 1363
chloroplasts 1363
chromosomes, morphology 2981, 7172
colour 7173
combining ability 6156
cytoplasmic inheritance 1363
dormancy 1364
flowering 2983
γ rays 2981
genetics
colour 7173
Plasmopara 8106
sterility and fertility 6157
sterility, male 2982, 3837, 4513, 5314, 7173–7174, 9008
genotype × environmental interaction 9913
germination 6161
growth period 7661, 8099–8100
heat and drought resistance 8104
height 8100
heritability 4511
heterosis 6156, 8097, 9912
hybrid varieties 3836, 5312, 6157, 8096, 9007
hybridization 6158
hybridization, graft 9006
hybridization, interspecific 2982, 5315, 7171
inbreeding 4514
land races 556
linkage 8096
lodging 8103
Macrophomina 6162
meiosis 5315, 8098
mutation 1363
mutation, induced 5316
Orobanche 2982, 4516
Peronospora 5316
photosynthesis 1365
plant collections 556, 1361, 2979
plant introduction 3318, 3835
Plasmopara 557, 1362, 2140, 3838, 4515, 8106, 9009
pollen 6159
pollen, technique 2139
pollination, technique 4514
polyploidy 5315, 8098
Puccinia 558, 2986, 7175
physiological races 5317–5318
Sclerotinia 1362, 7661
seed 2985, 8099, 9007
seed production 8096
sterility and fertility 555, 5315, 6157
sterility, male 2982–2983, 4513, 5314, 7173–7174, 8096, 8101, 9008
sterility, male, cytoplasmic 3837, 6157
sterility, self 8097
succession, crop 5312
synthetic varieties 8097, 9005
temperature, effect of 6161
varieties
Argentina 5313
New Zealand 8471
USSR 6155
variety trials
Argentina 6153
France 1362
India 2138
Italy 7603
Poland 5311
Rumania 2980, 6154
USA 3836, 4510
Verticillium 8105
physiological races 1369

***Helianthus*, sunflower** *contd.*
yield components 6158, 8100
***Helianthus*, sunflower × *Helianthus*, Jerusalem artichoke**, hybridization, interspecific 1540, 6160, 7170, 7384, 9009
Helictotrichon, hybridization, interspecific 377
Heliothis
Glycine 8467
Gossypium 473–474, 9827
Nicotiana 535

Helminthosporium (*see also Cochliobolus; Pyrenophora; Trichometasphaeria*)
Eleusine 289, 5651
Festuca 6943
grasses 9689
Lolium 6943, 8447
Poa 363, 9689
Saccharum 8036
Triticum 173
physiological races 9499
Zea, maize 248, 8725
***Helminthosporium*, technique**, *Saccharum* 496
Helopeltis, *Psidium* 1423, 9996
Hemarthria
chromosomes, number 1973
plant introduction 1973
quality, for nutrition 8833, 9714
vascular tissue 8833
Hemileia
Coffea 2962, 3827, 5286, 8080
physiological races 1345–1346, 2122, 3828, 7154
genetics 1346
Hemp (*see Cannabis*)
Herbivores, *Pseudotsuga* 1532
Heredity (*see* Genetics)
Heritability 7, 2411, 4754, 6494, 7528, 7532
Arachis 565, 7183
Avena 197, 7775, 8637
Beta, sugar beet 5249–5250, 5259, 9863
Brassica, mustard 2976, 8092
Brassica, oil crops 8088, 9904
Cajanus 8365
Capsicum 571
Carthamus 9010
Cicer 6482–6483
Corchorus 483
Coriandrum 1647
crop plants 2486
Cryptomeria 704
Cucurbita 2425
Cyamopsis 409
Cynodon 1959
Eleusine 4365
Fagopyrum 9681
Fragaria 6266, 10013
Glycine 829, 3232, 4736, 5577, 6453–6454, 10145, 10148
Gossypium 2047, 5219, 6031, 7077, 9803
Helianthus, sunflower 4511
Hevea 583
Hibiscus 4462
Hordeum 1889, 8738, 9631
Juglans 669
Lolium 4408
Lotus 2828
Lycopersicon 2333, 5526, 8312, 10108
Malus 7248
Medicago 7931, 8842
Nicotiana 8056–8057, 8975
Oryza 320, 5033, 5079, 5922, 7887, 8790
Papaver 2124
Pennisetum 284, 7865
Phalaris 5951, 8826
Phaseolus 813, 2362, 9269
Picea 673
Pinus 1515, 7353, 8256
Pisum 838, 6470, 10171
Populus 1503
Prunus, cherry 8441
Prunus, peach 3033
Saccharum 2900, 6072, 8033
Solanum, potato 7968
Sorghum 1138, 1911, 3639
Trichloris 7921
Trifolium, minor species 9741
Heritability *contd.*
Trifolium, red clover 5165
Triticum 978, 2579, 2585, 3483, 4212, 4214, 4874, 5711–5712, 5715, 5748, 5755, 6697, 7703, 7722, 8555, 8598, 9403
Vigna 821, 7474
Zea, maize 1103, 1844, 2425, 3575–3576, 3580, 4943, 6808
Hermaphroditism, *Vitis* 4616, 8212
Herrania* × *Theobroma
hybridization, intergeneric 7157
seed, shape 7157
Heterocaryosis, *Agaricus* 2404
Heterochromatin (*see* Chemicals, as plant constituents; Nucleus)
Heterodera
Avena 2619, 4781, 9356
Beta, sugar beet 4486, 4817
cereals, physiological races 4188
Glycine, physiological races 9298–9299
Hordeum 4782

Hordeum, physiological races 1130
leguminous forage crops 6966
Nicotiana 2119, 2951
Solanum, potato 443–444, 2037, 2843, 2866, 4783, 4817, 6542, 7036–7037, 7986, 9793
physiological races 1251, 2034–2036, 2867, 3746–3748, 4447–4448, 5211, 7038, 8439, 8900
taxonomy 8439
***Heterodera*, technique**, *Solanum*, potato 4447, 7035
Heterosis 2416, 2418, 6501
Agropyron × *Triticum* 3437
Avena 9521–9522
Beta, mangel 2832
Beta, sugar beet 2091, 3786, 3796, 4473, 6099, 7109
Brassica, cabbage 8276
Brassica, oil crops 6148, 9904
Brassica, rape 546, 2132
Brassica, swede 2007
Cannabis 1296
Capsicum 572, 4531, 5326, 5328, 5330, 6172, 9022
Carthamus 9011
cereals 1749, 3378
Citrullus 6383
Citrus, grapefruit × *Citrus*, pomelo 2226
Citrus, mandarin × *Citrus*, pomelo 2226
Citrus, orange × *Citrus*, pomelo 2226
Citrus, pomelo × *Poncirus* 2226
Cocos 636, 1427, 8188
Corchorus 1297
crop plants 3357
Cucumis, cucumber 6389, 8429, 10096
Cucumis, melon 748–749
Fagopyrum 5123
Festuca 9705
Fragaria 2242
Glycine 6453
Gossypium 456, 1267, 1271, 7068, 7077–7078, 7994, 9805
Helianthus, sunflower 6156, 8097, 9912
Hibiscus 3773
Hordeum 1889, 2687, 2695, 5853, 8740–8741, 8757, 9623
Linum 477
Lolium 6608, 8818
Lycopersicon 1564, 2332–2333, 3177, 3349, 4701–4703, 5524–5527, 6405, 6407–6409, 6415, 7642, 8305, 8307, 8310, 8506, 9242, 9244, 9250, 10109–10111
Medicago 5964
Nicotiana 524, 2105, 2924, 7128, 7134, 8460
Oryza 1151–1152, 3657, 4380–4381, 5085, 7880, 9669
Pennisetum 1132–1133
Picea 4646
Pisum 2383, 4076, 10158
Raphanus 5489, 9213
Secale 4271, 4919, 8643, 9531–9532
Secale × *Triticum* 1786
Solanum, egg plant 9258
Solanum, potato 5193, 9758
Heterosis *contd.*
Sorghum 1141–1142, 1911, 1918, 3643, 5028, 5891–5893, 7873, 8770
Theobroma 1348, 4502
Trifolium, red clover 4420
Triticum 123, 129, 979, 983, 985, 1765, 1769, 2417, 2540, 3428, 4223, 4230, 4843, 5715, 5719, 6712, 6766, 7696, 8420, 8506, 8538, 8562, 8569–8570, 9199, 9431
Vitis 6278, 9174–9175, 10034
Zea, maize 244, 1059, 1080–1082, 1849, 2659, 3349, 3580, 4312, 4950, 5819–5820, 6808, 6825, 7642, 7803–7805, 7822, 8678, 8681, 8685, 8687, 8703, 9560, 9564–9566, 9568, 9597
Heterosis, technique, *Oryza* 9670
Heterostyly 6496
Brassica, rape 9907
Fagopyrum 5933, 8800
Linum 7096
Lycopersicon 4007, 10109
Heterothallism
Agaricus 858, 9203
Calonectria 9895
Heterozygosis 1659, 4763
Hordeum 4343, 8739–8740
Linum 5230
Malus 9062
Zea, maize 8687, 9560
Hevea
breeding
Malaya 580, 1481
Sri Lanka 6178, 7208
Ceratocystis 2997
chemicals, as plant constituents
latex 582, 6179
oil, fatty 582–583
chemicals, mutagenic effects, miscellaneous 9026
chimeras 9026
development and growth 582, 7209
Dothidella 4536–4537
germination 7209
Glomerella 2996, 9026
height 3852
heritability 583
leaf, size, technique 1390
Microcylus 7209
Oidium 7209, 9027
Oidium, technique 9026
pathology 2179
Phytophthora 7211
varieties, Malaya 581, 2995
variety trials
Malaya 4535, 5340
Sri Lanka 7210
wind 584, 9026
X rays 9026
Hibiscus
Aecidium 5235
breeding 8940
USSR 4461
calyx, colour 7101
chromosomes, number 5234
Colletotrichum 2046–2047
physiological races 5236
development and growth 8031
embryology 1300
Empoasca 9839
flowering 1299
genetics 485
leaf, shape 485
heritability 4462
heterosis 3773
hybridization, interspecific 1300
leaf, shape 485
photoperiodism 1299, 8031
pollination, technique 8941
quality, of edible product 3773, 7101
taxonomy 5234
temperature, effect of 8031
varieties, India 5659
variety trials
Pakistan 8029
Portuguese East Africa 8030
Upper Volta 2049
USA 1298
yield components 4462
Hicoria (*see Carya*)
Hieracium, genetics 8387
Hierochloe, meiosis 5141

Hippophae
taxonomy 6272–6273
varieties, USSR 10019
Histology (*see* Anatomy)
History and evolution 2051, 2955, 5556, 6534, 8447 (*see also* Centres of origin; Evolution, general theory)
Aegilops 2051, 2955, 5556, 6534, 8447, 162, 1027, 2609, 3522, 4837, 7681, 7719
Aegilops × *Triticum* 2511, 2556
Agropyron 1188, 8831
Agropyron × *Triticum* 274
Allium, garlic 2311
Apium 3980
Arachis 1378
Asparagus 1544
Avena 2613–2615, 5795, 7779
Beta 7109
Brassica, rape 2975
Bromus 7913, 9391–9392
Capsicum 2174
cereals 89, 7652, 9380–9381
Citrullus 5507
Coffea 539
crop plants 935, 3362–3363, 4170–4171, 4807, 5672, 7646, 9341, 9382, 10177
Cucurbita 3166
cucurbits 9230
Cupressus 10065
Cyamopsis 6994
Diospyros 8245
Elaeis 7178
Eleusine 5651
Elymus 1189
Eucalyptus 7348
Euchlaena × *Tripsacum* 6815
Festuca 1185–1186, 7655
fibre plants 2051
forest trees 3119, 3937, 4753
Fragaria 2243
Glycine 1614, 1618, 6463
Gossypium 2067, 6045, 8004, 8923
grasses 6942
Haynaldia × *Triticum* 2511
Hordeum 6671, 9391–9392
Lagenaria 8298
Larix 2271, 10055
Larix × *Pseudotsuga* 2271, 10055
leguminous forage crops 3696
Lens 10173
Linum 478, 2888
Lupinus 8870
Lycopersicon 2341, 5534, 6412
Malus 2193
Mangifera 7290
Matricaria 577
Medicago 1986
Morus 7286
Nelumbium 2913
Nicotiana 5273, 6125
Oryza 2738, 2749, 6920
Panicum 5880
Paspalum 8825
Phaseoleae 8317
Picea 2271, 10055
Picea × *Tsuga* 2271, 10055
Pinus 7354
Poa 7908
pome fruits 8136
Prunus, apricot 615
Prunus, cherry 3885, 9966
Prunus, plum 9966
pulses 9380–9381
Pyrus 5363, 9090
Quercus 3938, 7340
Secale 1823, 2621, 3540, 6671
Secale × *Triticum* 2511
Solanum, potato 429, 2017, 2022, 2847, 4135, 7022, 7648, 7656, 9352, 9775
Sorghum 9659
Taraxacum 6428
Themeda 1952
Tilia 2283
Trifolium 3706
Trifolium, minor species 2822, 9429
Tripsacum 1883
Tripsacum × *Zea,* maize 6815
Triticum 162, 997, 1024–1029, 1764, 1789, 2531, 2535, 3453, 4245–4246, 4837, 5768, 6671, 6695, 6703, 6748–6755, 6757–6760, 7681, 7719, 9391–9393, 9430
History and evolution *contd.*
Uredinales 941
Vicia, broad bean 3205, 5553–5555, 9267
Vitis 5441
Zea, maize 241–242, 1087–1088, 2654, 3594, 4322, 4973, 5839
Zea, popcorn 9567
Hollow heart, *Pisum* 10170
Homozygosis 2457, 4756
Solanum, potato 8439
Zea, maize 4929
Hop (*see Humulus*)
Hoplocampa, Malus 7220
Hoplolaimus, Pinus 1523
Hopping quality (*see* Quality, for hopping)
Hordeum
adaptability 4341, 5873
aneuploidy 271, 2692, 2694, 3621, 5003, 5860, 6549, 7837, 9376, 9624
anther culture 2699
awns 1903, 6878
β rays 5670
back crossing 5859, 8750
bacteriophages 3271
breeding
Canada 260, 9618
Denmark 9358
German Democratic Republic 4994
German Federal Republic 6860
Hungary 1111
India 8733
Italy 1884, 6862
Lithuanian SSR 4993
Norway 7850
Poland 3610, 4357
Sweden 3327, 4120
UK 6569
USA 6861
USSR 8527
White Russian SSR 2678, 9616
breeding, technique 3369
cell division 23, 270, 4352, 6875, 7552, 7845
cell inclusions 8746
Cercosporella 6607
chemicals, as nutrients
miscellaneous 262, 2706, 4356, 7854
nitrogen 1122, 1885, 5008
chemicals, as plant constituents
aminoacids 1126, 9639
amylase 4996, 5866, 6569, 6868
chlorophyll 1895, 8739
β-diketones 265
enzymes 280, 2693, 8752
esterase 2705, 5011–5012, 6868
gibberellins 6569, 6879
invertase 5867
lysine 1751, 4355, 7666, 7846, 7850, 8753, 9632
miscellaneous 1125
nitrate reductase 1895
nitrogen 4355
nucleic acids 2708, 3620, 6871
phenols 4349
protein 1122–1123, 1889, 1899, 2697, 3383, 3623, 4120, 4346, 4354, 5000, 5008, 6884, 7666, 7842, 7846, 7850, 7852, 8422, 8753, 9632
ribulose diphosphate carboxylase 1895
starch 275, 5010
wax 2514
chemicals, cytological effects
adenosine triphosphate 4099
aminoethylurone 268
5-aminouracil 23
1,4-bisdiazoacetylbutane 5005
α-bromonaphthalene 1118
chlorpropham 7552
colchicine 1118, 4351
cysteine 268, 4099
8-ethoxycaffeine 1896, 5005
ethyl methanesulphonate 1117, 2432, 3620
ethyleneimine 5004
fungicides 2432
gibberellins 4352
herbicides 2432
hydroxylamine 1117, 4616
insecticides 2432
kinetin 4352
miscellaneous 8350
water, quasicrystalline 269
Hordeum contd.
chemicals, fertility and sex, effects
2-chloroethanephosphonic acid 2507
miscellaneous 3625
chemicals, general effects
5-butyl-2-ethylamino-4-hydroxy-6-methylpyrimidine 2714
4-chloro -2-methylphenoxyacetic acid 2710
cysteine 1670
DDT 6868
ethyl methanesulphonate 5865
herbicides 2710, 4814, 9635
2-methyl -4,6-dinitrophenol 2709
milstem 5874
siduron 4998
chemicals, mutagenic effects
adenosine triphosphate 9626
azide, sodium 9625
cysteine 9626
2,4-D 7556
diethyl sulphate 1894, 2427, 4350, 6870
dimethyl sulphate 5857, 7840
ethyl methanesulphonate 1117, 1892, 4348, 4999–5001, 5855, 6569, 6870–6871, 6884, 7556, 7842, 9627
ethyleneimine 1670, 1894, 5854, 5856
gibberellins 7639
hydroxylamine 1117, 1117, 8350
isopropyl methanesulphonate 7839, 7843
methyl methanesulphonate 6871
miscellaneous 16, 267, 1890, 2696, 3619, 5858, 6667
N-nitrosoguanidine 5855
N-nitroso-*N*-ethylurea 4809, 7840, 7848, 9627
N-nitroso-*N*-methylurea 3276, 4999, 6871, 7840, 7848
propyl methanesulphonate 7839
chimeras 6880
chromosomes, aberrations 268–269, 1750, 2432, 2505, 3620, 4099, 4351–4352, 4616, 4999, 5004–5006, 5670, 5860, 6873–6874, 7839, 7844, 8747, 9627
chromosomes, morphology 5852
chromosomes, morphology, technique 1118
climate 8761
cold, effect of 5004, 6670
cold resistance 1126, 1904, 2711, 4357, 4995, 7858, 8758
cold resistance, technique 5014
combining ability 2685, 6869, 9622
competition 276, 7856, 8741
density of stand 3628, 6584, 7855
development and growth 1898, 2687–2688, 2704, 5865, 6876
diallel analysis 2685, 8741
dormancy 1900, 2701, 5863
embryo culture 8745
embryology 1893
Erysiphe 92, 279–280, 1129, 1905, 2514, 2709, 2712, 2714–2715, 3388, 4357, 4359, 5876, 6569, 6889, 7765, 7860, 8437, 8760, 9638
physiological races 4358, 6549
Erysiphe, technique 8759
flower 4348
flowering 2707, 6877
γ rays 16, 268–269, 1750, 1885, 1893, 2505, 2696–2698, 3619, 4348, 4352, 5004, 5006, 5670, 5856–5857, 6872–6873, 8747, 9626–9627
genetics 2686, 4346, 4348
amylase 4996, 6868
aneuploidy 9624
chlorophyll 8739
DDT 6868
development and growth 2687–2688
β-diketones 265
enzymes 2693
Erysiphe 92, 2514, 2715, 6889, 8759
esterase 5011–5012, 6868
gibberellins 6879
growth period 8738
height 5007
Heterodera 7862
inflorescence 4344

Hordeum contd.
genetics *contd.*
inflorescence, colour 4345
lysine 1751, 8753, 9632
meiosis 4347
photosynthesis 2703
protein 5000
Puccinia 9642
Rhynchosporium 2713
siduron 4998
stem 5850
sterility, male 6584
Ustilago 2716–2717, 5877, 9640
genotype × environmental interaction 272, 3385, 4342, 4997, 5851, 7842
geography 7853, 8761
germination 269, 5865, 6670
growth period 2685, 5859, 5863, 8738
gynecium 1898
haploidy 4347, 8744
haploidy, technique 8745
heat and drought resistance 4357, 4995, 6672, 6876, 7857, 9636
height 1750, 1884, 4349, 4353, 5007, 5013, 6549, 6879, 7859, 8743, 8750, 9629
heritability 1889, 8738, 9631

Heterodera 7862
Heterodera, physiological races 1130
heterosis 1889, 2687, 2695, 5853, 8740–8741, 8757, 9623
heterozygosis 4343, 8739–8740
history and evolution 6671, 9391–9392
hybrid varieties 2694, 5853, 8742
hybridization 2692, 6666
hybridization, interspecific 276, 2692, 4347, 8744–8745, 9624
inflorescence 1892, 4344, 4361, 6878, 7841, 8748
inflorescence, colour 4345
inflorescence, size 8734
irrigation 9634
leaf 2514, 7855
leaf, colour 5862
leaf, size 1120
light, effect of 5862
linkage 2690, 4345, 5852, 7837, 7862, 9325
lodging 4353, 5875, 6885, 8422
Macrosiphum 8536
meiosis 2699–2700, 4347, 6668, 6874, 8747, 9390
mixtures of crops or genotypes 276, 7856, 8741
multiple alleles 2705
multiple genes 2716, 4359, 5850, 6889
mutation 1895, 2690, 3276, 5859, 8743
mutation, induced 16, 267, 1117, 1750, 1885, 1890–1894, 2427, 2696–2698, 3619, 4348–4350, 4809, 4999–5001, 5015, 5670, 5854–5858, 6569, 6667, 6870–6872, 6884, 7556, 7639, 7839–7843, 9625–9627
neutrons 6872–6873, 6880, 8747, 9389, 9626–9627
nondisjunction 3621
pathology 1125, 8422
photoperiodism 2707, 5851
photosynthesis 2703, 2706, 2708, 9376, 9630
plant collections 8422, 8748
pleiotropy 7838, 8743
pollen 5861, 6877, 7844
pollination 3624, 6666, 8749
polyploidy 2699–2700, 5860, 9390
population genetics 266
Pseudomonas 1905, 5015
Puccinia 279, 942, 1906, 2712, 3391, 4357, 4833, 5876, 7765, 8761, 9642
physiological races 1129, 1905, 5692–5693, 9641
Pyrenophora 942, 1124, 2712, 3391, 3629, 4357, 5017
physiological races 278, 6886
quality, for malting and brewing 263, 273–274, 1112, 1114, 1900–1901, 3610, 3627, 4356, 5009, 5687, 5690, 5867, 5869, 5871, 6881–6883, 6885, 7849, 7851, 8755, 8755, 9631, 9633
quality, for malting and brewing, technique 5870
radiation 1890, 4099, 4350

Hordeum contd.
recombination 7862
Rhopalosiphum 9643
Rhynchosporium 279, 1127, 2712–2713, 3391, 5876, 6887, 7859
physiological races 6888, 7664, 9637
root 8751
root, number 3622, 9636
root, size 3622
Schizaphis 4995
seed 6878
seed, anatomy 3623
seed, size 1891, 1901, 4361
seed storage 3620
selection, artificial 1885, 2677, 3622, 9617
selection, natural 266, 1904, 2689, 5011–5012
Selenophoma 2712
Septoria 277
sex 6668
shedding 4346, 4995
soil pH 8756–8757
sowing and planting date 3369, 3626, 4340, 6670
space flight 268
spring and winter habit 1891, 1897, 3626
statistics 1115, 9617
stem 5850
sterility and fertility 271, 1121, 1893, 2505, 2700, 3621, 3625, 5003, 5860, 6880, 8747, 9390
sterility, male 1121, 2507, 3624, 5861, 6584
sterility, male, cytoplasmic 6861, 8742
succession, crop 2491, 2512
synthetic varieties 4342
taxonomy 8532
temperature, effect of 1895, 2707, 3624
translocation 271, 1896, 2700, 5003
Trogoderma 3632
Ustilago 1129, 1905, 2716–2718, 3630, 4357, 4360–4361, 4995, 5018, 7546, 9639
physiological races 3631, 5877, 7861, 9640
Ustilago, technique 1128
variation 3385, 5011–5012
varieties
Argentina 4995
Austria 3301, 7636
Belgium 7835
Canada 2681, 5849, 8735
Czechoslovakia 8736
Finland 6864
German Federal Republic 264, 6860
Hungary 1111, 1888, 7836
India 2679
Nepal 4797
Netherlands 261, 1717, 5869, 7631
Poland 6867
Sweden 1116, 1887, 3327, 6865
Ukrainian SSR 1125
USA 923, 1711, 2680, 2682–2684, 3615–3617, 6665, 6866, 9372, 9621
USSR 8737
varieties, classification 1115, 2705, 5872, 8748, 8752
varieties, classification, technique 7847
variety trials 263, 4833, 6683, 7765
Bulgaria 1114, 2503, 4340
Canada 9387
Estonian SSR 3611
Ethiopia 3613
Irish Republic 5847–5848
Italy 1886
Mongolian SSR 7834
Netherlands 5871
New Zealand 5846
Poland 262, 3612
Rumania 7833, 9620
Spain 7566
Switzerland 6664, 9386
UK 4183, 4338–4339, 4820–4821
USA 4997, 7671–7672, 9388
USSR 3614, 8489
Uzbek SSR 1113
White Russian SSR 9619
viruses 281
physiological races 282
X rays 2432, 4349, 4999–5000, 5015, 6870, 6873

Hordeum contd.
yield components 1119–1120, 1884, 1889, 1902–1903, 2702, 2704, 4342, 5013, 5862, 5864, 6869, 8734, 8750, 9623, 9628–9629, 9638
yield components, technique 272
Hordeum* × *Elymus, hybridization, intergeneric 5683
Hordeum* × *Taeniatherum
genome analysis 2691
hybridization, intergeneric 2691
Hordeum* × *Triticum
chromosomes, morphology 5682
hybridization, intergeneric 5682
Horse bean (*see Vicia,* broad bean)
Humidity
Secale 8651
Triticum 3491
Humulus
aneuploidy 8997
breeding, Czechoslovakia 544
chemicals, as plant constituents, miscellaneous 5297
chemicals, cytological effects, colchicine 5296
combining ability 9899
γ rays 2126
mutation, induced 2126
Peronospora 1352
polyploidy 5296
Pseudoperonospora 9899
quality, for hopping 1353–1354, 9899
quality, for storage 1354
seedlessness 2971
selection, artificial 7158
sex chromosomes 2973
temperature, effect of 7227
varieties
Czechoslovakia 6146
New Zealand 2971
USA 1352, 2972, 9898
varieties, classification 5297
variety trials
Czechoslovakia 545
S. Korea 7159
UK 6145
Verticillium 1352
physiological races 77, 2127, 7219, 7227
Hybrid chlorosis, *Triticum* 116, 2531, 3498, 5772, 6695
Hybrid necrosis, *Triticum* 1762, 1790, 2530–2531, 2534, 3498, 3505, 4208, 4213, 4236, 5714, 5772, 6695, 6702, 9492
Hybrid varieties
Allium, onion 4663, 8267, 10078
Beta, sugar beet 503, 7112, 8950
Brassica, Brussels sprouts 739, 2313
Brassica, cabbage 3142, 3153, 8277
Cannabis 8026
Capsicum 9211
Carthamus 9914
Cichorium, chicory 4679
Cichorium, endive 5503
Citrullus 5659
crop plants 72, 4808
Cucumis, cucumber 2322, 4687, 7612, 8294, 8296
Cucurbita 753, 8292, 8428, 9229
Glycine 5576
Gossypium 8910
Helianthus, sunflower 3836, 5312, 6157, 8096, 9007
Hordeum 2694, 5853, 8742
Lycopersicon 2329, 2331, 3993, 4012, 4132, 4703, 5518, 6332, 6398, 6409, 8313, 8430, 9197, 9211, 9240
Medicago 5151

Nicotiana 2108, 2920
Oryza 5085–5087
Pennisetum 5633
Ricinus 8094
Solanum, egg plant 1696, 9211
Sorghum 297, 3637, 4366, 4368–4369, 5889–5891, 7605, 7866
Triticum 129, 967, 3306, 3424, 3441, 4221, 4842, 5084, 5705, 5723, 5726, 6666, 8538
vegetable crops 710

Hybrid varieties *contd.*
Zea, maize 85, 225–226, 230, 1066, 1837, 1865, 2628, 2631, 3302, 3558–3559, 3559, 3563, 3570–3572, 4311, 4938, 4940, 4969, 5641, 5815, 6798, 6803, 6814, 7668, 7795–7796, 8673, 9545, 9557
Zea, sweet corn 7605
Hybrid varieties, technique
Lycopersicon 9245
Triticum 2538
Hybridization 4096
Allium, onion 8268, 10077
Beta 1320
Beta, beetroot × *Beta,* sugar beet 4654
Beta, mangel × *Beta,* sugar beet 4471, 4474, 6098
Beta, sugar beet × *Beta,* beetroot 4654
Beta, sugar beet × *Beta,* mangel 4471, 4474, 6098, 8946
Brassica, Brussels sprouts 3970
Brassica, oil crops 7165
Capsicum 4531, 7197, 8115
Citrus 3037
Cocos 1430, 5396
Corchorus 8938
crop plants 8501
Cucumis, cucumber 3989
Cucurbita 9196
Dolichos 5655
Eucalyptus 2274
Festuca 9704
Fragaria 8198
Gossypium 2060–2061, 4453
Helianthus, sunflower 6158
Hordeum 2692, 6666
Leucaena 5943
Lycopersicon 4017, 5532, 6406
Malus 598, 3349, 9070
Medicago 1984–1985, 4416, 5967, 6968, 9725
Oryza 5080, 5086, 5907, 5915
Pennisetum 3635, 9647
Phaseolus 4036, 9270–9271, 10134
Pinus 1517, 8255
Pisum 4741, 9303, 10157
Prunus, plum 2210
Puccinia 3677
Solanum 10020
Solanum, egg plant 5540
Solanum, potato 5203
Sorghum 1137, 1912
Theobroma 4501
Tilia 3134
Triticum 989, 3442, 4222, 6721, 7701, 7712, 7746, 7757, 8563, 8588
Vicia, vetch 5983–5984
Vitis 4621
Zea, maize 236, 1086, 1688, 1847, 3577, 3582, 4930, 4947, 6583, 6813, 9540, 9553
Zea, sweet corn 1086, 4335, 5844
Hybridization, graft 4095
Carthamus 9006
Gossypium 7057
Helianthus, Jerusalem artichoke 9006
Helianthus, sunflower 9006
Lycopersicon 4003
Matricaria 9006
Secale × *Triticum* 9425
Hybridization, intergeneric
Aegilops × *Secale* 3523, 3523
Aegilops × *Triticum* 130, 996, 1024, 1027, 2511, 2532, 2546, 2556, 2559, 3422, 3430, 3523, 4215, 4217–4218, 4228, 4840, 4862, 5768, 6713, 6740, 7709, 7719, 9430, 9474
Agropyron × *Elymus* 376, 5956
Agropyron × *Triticum* 132, 969, 986–987, 1812, 2511, 2547, 2607, 3428, 3430, 3437–3438, 3692, 4257, 4411, 4845, 5667, 5718, 5724, 6709, 7711, 8436, 8607, 8829, 9422, 9433
Apium × *Petroselinum* 4090, 8370
Brassica, kale × *Raphanus* 9224
Brassica × *Raphanus* 7392
Brassica, turnip × *Raphanus* 6572
cereals 86, 1748
Chaenomeles × *Malus* 9069
Citrus, lemon × *Poncirus* 5384
Citrus, orange × *Poncirus* 8150
Citrus, pomelo × *Poncirus* 2226
Hybridization, intergeneric *contd.*
Citrus × *Poncirus* 3040, 3893, 5382, 5382
Coix × *Zea,* maize 4949
crop plants 4807
Elymus × *Agropyron* 376
Elymus × *Hordeum* 5683
Elymus × *Secale* 5683
Elymus × *Triticum* 5667, 5683
Euchlaena × *Tripsacum* 6815
Euchlaena × *Zea,* maize 1070, 1848, 4948, 9567
Festuca × *Lolium* 1179, 1183, 1185, 1964, 2773, 5949, 7919, 8438, 8458, 8816–8817, 9703
Festuca x *Lolium* 1964
Fragaria × *Rubus* 8197
Haynaldia × *Triticum* 2511
Herrania × *Theobroma* 7157
Hordeum × *Elymus* 5683
Hordeum × *Taeniatherum* 2691
Hordeum × *Triticum* 5682, 5682
Larix × *Pseudotsuga* 2271, 10055
Lathyrus × *Pisum* 9307
Lolium × *Festuca* 1179, 1183, 1185, 1964, 2773, 5949, 7919, 8438, 8458, 8816–8817, 9703
Lycopersicon × *Solanum* 5523
Malus × *Chaenomeles* 9069
Matricaria 577
Oryza × *Polytrias* 322
Petroselinum × *Apium* 3162, 4090, 8370
Picea × *Tsuga* 2271, 10055
Pisum × *Lathyrus* 9307
Pisum × *Vicia,* broad bean 9307, 10159
Polytrias × *Oryza* 322
Poncirus × *Citrus* 3040, 3893, 5382
Poncirus × *Citrus,* lemon 5384
Poncirus × *Citrus* orange 8185
Poncirus × *Citrus,* pomelo 2226
Pseudotsuga × *Larix* 2271, 10055
Pyrus 9091
Pyrus × *Sorbus* 5361
Raphanus × *Brassica* 7392
Raphanus × *Brassica,* kale 9224
Raphanus × *Brassica,* turnip 6572
Roegneria × *Secale* 5683
Rubus × *Fragaria* 8197
Secale × *Aegilops* 3523
Secale × *Elymus* 5683
Secale × *Roegneria* 5683
Secale × *Triticum* 122, 125, 125, 127–128, 131, 133, 139, 980–981, 984, 988, 1015, 1770, 1786, 1796, 1811–1812, 2511, 2514, 2539, 2543, 2548–2549, 2559, 2597, 2622, 3423, 3426–3427, 3429, 3431, 3434–3435, 3440, 3472, 3477, 4117, 4216–4217, 4219, 4224, 4228, 4254, 4844, 4848, 4851–4853, 4922, 5678, 5699, 5718, 5720–5722, 5724–5725, 5727, 5768, 6704, 6706–6711, 6714–6718, 7673, 7673, 7705–7706, 7708, 7708, 7710–7711, 7713–7716, 7718, 7727, 7743, 7757, 7773, 7785, 8436
Triticum × *Hordeum* 5682
Triticum × *Secale* 122, 125, 127–128, 131, 133, 137, 139, 980–981, 984, 988, 1015, 1770, 1786, 1796, 1811–1812, 2511, 2539, 2539, 2541, 2543, 2548–2549, 2559, 2597, 2622, 3423, 3426–3427, 3429, 3431, 3434–3435, 3440, 3472, 3477, 4117, 4216–4217, 4219, 4224, 4228, 4254, 4844, 4848, 4851–4853, 4922, 5678, 5699, 5718, 5720–5722, 5724–5725, 5727, 5768, 6704, 6706–6711, 6714–6718, 7673, 7705–7706, 7708, 7710–7711, 7713–7716, 7718, 7727, 7743, 7757, 7773, 7785, 8436, 8557–8559, 8561, 8565, 8572–8573, 8584, 8591, 9376, 9417–9421, 9425–9426, 9428, 9432, 9445
Tsuga × *Picea* 2271, 10055
Vicia, broad bean × *Pisum* 9307, 10159
Zea, maize × *Coix* 4949
Zea, maize × *Euchlaena* 1070, 1848, 4948, 9567
Zea, maize × *Tripsacum* 242, 2640, 2654, 6815, 8682–8684
Hybridization, interspecific
Aegilops 3522, 4912, 8636
Amaranthus 800
Amelanchier 4614
Arachis 1378, 7184, 8109
Asimina 8238
Asparagus 7233
Avena 198, 202, 1046, 1819, 3532, 4268, 4916–4917, 5793, 6548, 8639–8640, 9522
Beta 6097, 7109
Beta, sugar beet 5252, 7111, 7118, 9857–9858, 9872
Betula 673, 1506, 3124–3126, 3941, 5461
Brassica 1547, 2006, 6359, 6572, 9047, 10082
Brassica, cabbage × *Brassica,* rape 2128
Brassica, kale × *Brassica,* rape 2128
Brassica, mustard 6149
Brassica, mustard × *Brassica,* sprouting broccoli 734
Brassica, oil crops 9000
Brassica, rape 2975
Brassica, rape × *Brassica,* cabbage 2128
Brassica, rape × *Brassica,* kale 2128
Brassica, sprouting broccoli × *Brassica,* mustard 734
Brassica, turnip 4428
Bromus 7914
Cardamine 3199
Carica 9147
Carthamus 6163
Castanea 8236
Cichorium, chicory × *Cichorium,* endive 6330
Cichorium, endive × *Cichorium,* chicory 6330
Citrus 5382, 5384, 7574, 9143, 9989
Citrus, grapefruit × *Citrus,* orange 629, 7282
Citrus, grapefruit × *Citrus,* pomelo 2226, 3038
Citrus, mandarin × *Citrus,* pomelo 2226
Citrus, orange × *Citrus,* grapefruit 629, 7282
Citrus, orange × *Citrus,* pomelo 2226
Citrus, pomelo × *Citrus,* grapefruit 2226, 3038
Citrus, pomelo × *Citrus,* orange 2226
Coffea 2956, 2962, 3828, 4499, 5285, 6133, 7154
Corchorus 482, 2891
Corylus 8235
Crambe 9922
crop plants 4807
Cucurbita 6386
Desmodium 410, 5942
Dichanthium 5957
Digitalis 5337–5338, 8124
Digitaria 2779, 9709
Dioscorea 5265, 6107
Diospyros 8239
Elaeis 561, 2142
Eleusine 6560

Hybridization, interspecific *contd.*
Elymus 375–376, 1189, 6958
Eucalyptus 1509, 2276, 9188
Festuca 1179, 1185–1186, 2774, 3685, 5950, 7920
Ficus 9992
Fragaria 646, 4609, 7301, 8443, 9033
Glycine 5577–5578
Gossypium 55, 457, 1269–1270, 1272–1274, 2047, 2884, 6038, 7062–7064, 7068, 7078, 7993–7994, 9804–9805
Helianthus, Jerusalem artichoke × *Helianthus,* sunflower 1540, 6160, 7170, 7384, 9009
Helianthus, sunflower 2982, 5315, 7171
Helianthus, sunflower × *Helianthus,* Jerusalem artichoke 1540, 6160, 7170, 7384, 9009
Helictotrichon 377
Hibiscus 1300
Hordeum 276, 2692, 4347, 8744–8745, 9624
Ipomoea 7042
Juniperus 708
Larix 1530, 2271, 10055
Lilium 9018
Linum 2888
Liquidambar 678
Lolium 1179, 1964, 3681, 3732, 7918
Lotus 3716
Lycopersicon 779–780, 795, 2338, 3183, 4000, 4013, 4705, 5523, 5527, 5530–5531, 7428, 7430, 8306, 8310, 8312, 9208, 10122, 10127
Malus 609–610, 4558, 6181, 7220, 8151, 8440, 9063
Manihot 3800
Medicago 391, 2798, 3701, 5152, 5966, 7933
Melilotus 4426
Mentha 851–855, 1642, 2399, 7519, 8366
Miscanthus 5142
Morus 7286
Musa 1452, 1454
Nicotiana 523, 525, 1331–1333, 1338, 2107, 2110, 2119, 2925–2927, 2944, 2953, 3271, 3809–3812, 3816, 4489–4490, 4492, 4494, 5268–5271, 5667, 6112–6115, 7135, 8052, 8059, 8061, 8063, 8065, 8433, 8460, 8985, 8988, 9889
Onobrychis 1213
Oryza 326, 1690, 2738, 2749, 5916, 6920, 8785, 9672
Papaver 5294
Paspalum 2776, 8447, 8825
Passiflora 3907
Pennisetum 286, 2475, 5884, 6894, 6896
Phaseolus 55, 3211–3212, 5558, 8328, 10135
Phleum 368, 1957
Picea 673, 2271, 2287, 3948, 7362, 7654, 10055
Pinus 1518, 7354–7355
Pisum 7495, 9301–9302
Poa 4404, 6570
Populus 1489, 3122, 3940, 5455, 6314–6316, 7342, 7344
Prunus, almond 9096, 9130
Prunus, almond × *Prunus,* peach 2268, 7334, 8182, 9132, 10052
Prunus, apricot 9095–9096
Prunus, apricot × *Prunus,* plum 5372, 6215, 8166
Prunus, cherry 4578–4579, 6225–6226, 7270–7271, 9119, 9976
Prunus, peach 8180, 9096
Prunus, peach × *Prunus,* almond 2268, 7334, 8182, 9131–9132, 10052
Prunus, peach × *Prunus,* plum 3887, 9095
Prunus, plum 4576, 5373, 7264, 8165, 9031, 9101, 9106, 9971
Prunus, plum × *Prunus,* apricot 5372, 6215, 8166
Prunus, plum × *Prunus,* peach 3887, 9095
Pyrus 4571, 5362, 7255, 9036, 9090–9091
Quercus 5454, 8247, 10056
Ribes 9152
Hybridization, interspecific *contd.*
Ribes, black currant 3054, 3057–3058, 6184, 9044, 9153
Ribes, black currant × *Ribes,* gooseberry 9151
Ribes, gooseberry 6185, 7225, 8191
Ribes, gooseberry × *Ribes,* black currant 9151
Ribes, red currant 7223
Rubus, raspberry 2235, 6183
Salix 688, 1510
Scopolia 7206
Secale 2621, 4918–4919, 7782, 8649–8650
Solanum 10021
potato 7972
Solanum, egg plant 796, 4020
Solanum, potato 414, 422, 1237, 1253, 2017, 2034, 2039, 2843, 2846, 2850, 2861, 3731, 3742, 3746, 4433–4435, 4443, 5192, 5196–5199, 5201, 6007–6008, 6026, 6542, 6997, 7000, 7013, 7032, 7969, 7971–7973, 7986, 8439, 8885, 8901, 8904, 9767–9770, 9782, 9788–9789, 9792
Sorghum 295, 1140, 4371–4372, 5888, 5892, 5896, 7870, 8773, 9653
Taraxacum 5542
Thea 2955, 2955, 3823
Theobroma 2964, 6140, 7157
Tridens 5139
Trifolium 2811, 3705, 7942
Trifolium, minor species 5980, 9429
Trifolium, minor species × *Trifolium,* red clover 1197
Trifolium, red clover 1992
Trifolium, red clover × *Trifolium,* minor species 1197
Trifolium, white clover 2816, 4419
Trigonella 8876
Triticum 86, 124, 126, 985, 1001, 1003, 1022, 1027, 1762, 1764, 1766–1768, 1771, 1789, 1812, 2536–2537, 2542, 2544–2545, 2557, 2559, 3425, 3432–3433, 3436, 3439, 3453, 3479, 3504, 4208, 4220, 4230, 4841, 4846–4847, 4849–4850, 4868, 5695, 5717, 6705, 6740, 7704, 7717, 7763, 8542, 8560, 8566–8568, 8571, 8574, 8582, 8599, 9423–9424, 9427, 9474
Ulmus 3129–3130, 7345
Vaccinium 4605, 6257
Vanilla 1693
Verticillium 7029
Vicia, vetch 4424, 7950
Vigna 55, 5568, 6446
Vitis 668, 3089, 3108, 3910, 3912, 3920, 6291, 6297, 7317, 8212–8213, 8215, 8227, 9170, 9176–9177, 10044–10045
Hybridization, interspecific, technique
Gossypium 7992
Nicotiana 8058
Solanum, potato 3732
Hybridization, technique 8411
Cocos 1429, 4596
Lycopersicon 4701
Onobrychis 8865
Oryza 1921
Phaseolus 4723
Populus 5457
Sorghum 3640
Theobroma 6143
Vicia, vetch 5982
Vigna 10141
Zea, maize 4946, 5818
Hybridization, wide 9325
crop plants 3359–3360
Fragaria 4610
fruit crops 8132
Gossypium 7061
Medicago 1190
Pisum 6471
Triticum 982, 1765, 8564

Hylemyia
Avena 4189
Brassica 2302
Raphanus 2302, 9205
Triticum 4189
Hypera
Medicago 1979, 8448
Hypericum
corolla, colour 5626
pollination 5626
ultraviolet rays 5626
Hyperomyzus, Ribes 6184
Hypomyces, Solanum, potato 7027
Hyponomeuta
Malus 5346
Pyrus 5346
Hypostasis (*see* Epistasis)
Hypoxylon, Populus 6318
Idiogram (*see* Chromosomes, morphology)

Immunology
Agrobacterium 1977
Brassica, cabbage 6365
Coix 4949
crop plants 938
Erwinia 3878
Pisum 2383
Rhizobium 1977, 3237
Solanum, potato 2023
Volvariella 5601
Zea, maize 4949, 8681
Inbreeding 1679, 4756, 4761
Allium, onion 2306
Astragalus 8873
Beta, mangel 2832
Beta, sugar beet 502
Brassica, cauliflower 8434
crop plants 6498
Elaeis 5320
Gossypium 1281
Helianthus, sunflower 4514
Lolium 1178
Malus 598
Medicago 1191, 9726
Nicotiana 10
Pennisetum 3635, 9647
Picea 4646, 7361, 8257
Pinus 690
Primula 4108
Prunus, cherry 8441
Secale 210, 3533, 4269, 6794, 8645
Solanum, potato 5193, 8882, 9758
Sorghum 2720–2721, 2724, 3642
Trifolium, minor species 3711
Trifolium, red clover 8857
Triticum 8577
Vicia, broad bean 1589
Zea, maize 1832, 2650, 3579, 4929–4930, 4945, 4951–4952, 5807–5809, 5811, 6805, 6835, 7800, 7802, 8662–8663, 8695, 8705, 9542
Zea, popcorn 4990
Zea, sweet corn 6858
Inbreeding, technique
Brassica, cabbage 8277
Zea, maize 1057, 8668
Incompatibility (*see* Sterility and fertility)
Inflorescence
Avena 8637
Cajanus 8363
Cocos 6243
Danthonia 378
Hordeum 1892, 4344, 4361, 6878, 7841, 8748
Lycopersicon 6407
Oryza 1933
Pennisetum 5883, 8765
Piper 6170
Prunus, cherry 7274
Secale 3538, 3551
Secale × *Triticum* 984
Setaria 4363–4364
Trifolium, red clover 8854
Triticum 134, 149, 169, 976–977, 1012, 2550, 2565, 2567–2568, 3428, 3486, 5769, 6719, 6736
Vitis 5431, 6283, 7324
Zea, maize 235, 7811, 7817
Inflorescence, colour, *Hordeum* 4345
Inflorescence, number, *Zea,* maize 9538, 9586
Inflorescence, size
Agropyron × *Triticum* 3437, 3437
Hordeum 8734
Zea, maize 7579, 7801
Inheritance (*see* Genetics)
Inheritance of acquired characters
Gossypium 7998
Triticum 4209, 4240, 4876, 9414

Inhibitors
Pennisetum 5883
Triticum 1784
Insects
Arachis 570
Beta, sugar beet 3797
crop plants 943, 2500–2501, 4818, 7662
Gossypium 5228
Oryza 1690
Pinus 1524
Quercus 1500
Solanum, potato 431
Interchange (*see* Translocation)
Interference, *Secale* 7784
Intergeneric hybridization (*see* Hybridization, intergeneric)
Interlocular cavitation, *Phaseolus* 4727
Internal brown spot, *Solanum,* potato 432
Interspecific hybridization (*see* Hybridization, interspecific)
Introduction, plant (*see* Plant introduction)
Inversion (*see* Translocation)
Ipomoea
breeding 7126
chemicals, as plant constituents
carotenoids 7044
starch 7044
sugar 9797
chromosomes, number 7045
cold resistance 9797
cuttings 9796
density of stand 6029
development and growth 6029
Fusarium 2042
γ rays 451, 9797
genetics, *Fusarium* 2042
hybridization, interspecific 7042
leaf, colour 5214
light, effect of 5214
Megastes 2872
Meloidogyne 2871
physiological races 8905
mutation, induced 451, 9797
pathology 8519
physiology 7041
plant collections 6643
quality, for canning 8449
quality, for storage 5213
root, anatomy 7043
selection, artificial 7041
sterility and fertility 7582
taxonomy 7045
tissue culture 4451
tuber, colour 451
varieties
India 8050
Mexico 1255
S. Korea 3751
USA 6028
variety trials
Philippines 2041
Rumania 6027
viruses 5214
Iris, chemicals, as plant constituents, oil, essential 9017
Irrigation
Allium, onion 727
Beta, sugar beet 6092, 7114
Capsicum 8123
cereals 9395
Glycine 4066
Hordeum 9634
Malus 8146
Medicago 7941
Oryza 2751, 5907
Raphanus 8264
Solanum, egg plant 9259
Solanum, potato 436
Thea 1342–1344
Triticum 99, 1031, 3475, 3489, 4195, 9406, 9408, 9483
Vitis 3114
Zea, maize 238, 2631, 4975, 5840, 6842, 7825, 8718
Zea, sweet corn 4988, 8732
Ischaemum, aneuploidy 5140
Iseilema
chromosomes, accessory 6959
nondisjunction 6959
patrocliny 6959
Isotopes, radioactive (*see* Radioactive isotopes)

Jasminum
corolla, colour 5626
pollination 5626
ultraviolet rays 5626
Jerusalem artichoke (*see Helianthus,* Jerusalem artichoke)
Job's tears (*see Coix*)

Juglans
breeding
USA 8232
USSR 1468
chemicals, as plant constituents
linoleic acid 3116, 10047
linolenic acid 3116, 10047
oil, fatty 3116, 5448, 10047
protein 10047
dormancy 6299
Gnomonia 5448
heritability 669
quality, for nutrition 6298
quality, of edible product 10047
sterility, self 1469
taxonomy 10048
varieties
Bulgaria 3116, 5448
USA 8233
USSR 2265
varieties, classification 1470, 10048
variety trials, Poland 6298

Jujube (*see Zizyphus*)
Juniper (*see Juniperus*)
Juniperus
chemicals, as plant constituents, terpenoids 708
grafting 707
hybridization, interspecific 708
polyploidy 707
variation 708
xylem 707
Jute (*see Corchorus*)

Kabatiella
Trifolium 8811
Trifolium, crimson clover 6977
Trifolium, red clover 6977, 8859
Kaki (*see Diospyros*)
Kale (*see Brassica,* kale)
Keeping quality (*see* Quality, for storage)
Kenaf (*see Hibiscus*)
Khuskia, *Zea,* maize 7661
Kidney bean (*see Phaseolus*)
Kohl rabi (*see Brassica,* kohl rabi)
Kola (*see Cola*)
Lactuca
breeding
Netherlands 1550, 2316, 3977, 8281
UK 9200
Bremia 8282
Bremia, physiological races 4130
Bremia, physiological races 7406
cell division 23
chemicals, as nutrients, carbon dioxide 8469
chemicals, cytological effects
5-aminouracil 23
colchicine 7405
lycorine 8405
chemicals, general effects
actinomycin D 8284
carbon dioxide 6375
chloramphenicol 8284
2-chloroethanephosphonic acid 10092
coumarin 8285
herbicides 6544
kinetin 10092
ozone 7378
streptomycin 8284
dormancy 10092
genetics, *Bremia* 7406

germination 8284–8285, 10092
glass and plastic, cultivation under 1550, 3159–3160, 3978, 6327, 7402
growth period 743
harvesting, mechanical 6327
heat and drought resistance 4676
heat, effect of 10092

Lactuca *contd*
leaf 8283
light, effect of 7402
Pemphigus 9207
pollution, atmospheric 7378
polyploidy, technique 7405
Pseudomonas 6376
quality, for storage 6375–6376, 7377
Sclerotinia 5501
sowing and planting date 743, 7372
temperature, effect of 23, 7402
tip burn 6544
varieties
Czechoslovakia 7404, 8427
UK 3160
varieties, classification 8283
variety trials 7403
Belgium 5500
Brazil 4676
Canada 742, 2481, 10091
Italy 3953, 3979
Rumania 8282
UK 741, 3159, 7402
USSR 3978
Yugoslavia 7400
viruses 1538, 3161, 4677–4678
viruses, technique 9227

Lagenaria
Aulacophora 1552
chemicals, as plant constituents
carbohydrates 1560
cucurbitacin 1552
history and evolution 8298
sex 1560
Lamarckism (*see* Inheritance of acquired characters)
Land races
Cucurbita 3985
Glycine 4065
Helianthus, sunflower 556
Theobroma 1348
Triticum 3411
Zea, maize 1871
Laphygma, *Arachis* 570
Larch (*see Larix*)
Larix
chemicals, as plant constituents, terpenoids 10064
cold resistance 700, 5479
Coleophora 5479–5480
Dasyneura 5480
development and growth 3950
fertilization, sexual 5477
geographical races 5479–5480, 7364
grafting 5478
habit 1482
history and evolution 2271, 10055
hybridization, interspecific 1530, 2271, 10055
pollen 5477
Pristiphora 7364

quality, of timber 3141, 7364
selection, artificial 1529
taxonomy 1530, 2271, 10064
Larix × ***Pseudotsuga***
history and evolution 2271, 10055
hybridization, intergeneric 2271, 10055
taxonomy 2271
Laser beams
Allium, minor species 884
Lycopersicon 9336
Lateness (*see* Growth period)
Lathyrus
Ascochyta 1228
chemicals, as plant constituents
β-cyanoalanine 5171
protein 8877
chemicals, mutagenic effects
dimethyl sulphate 8877
ethyleneimine 8877
N-nitroso-*N*-ethylurea 8877
chromosomes, number 383
fluorescence 2003
genetics
fluorescence 2003
sterility, male 6993, 8879
mutation 2003
mutation, induced 8877
pollen 6992
pollination 5175
polyploidy 5175

Lathyrus contd.
sterility and fertility 5175
sterility, male 6993, 8879
sterility, male, cytoplasmic 8879
Uromyces 1228
variety trials, USSR 1226
Lathyrus* × *Pisum

hybridization, intergeneric 9307
Lavandula
chemicals, as plant constituents
linalyl acetate 6168
oil, essential 2168, 6168, 9924–9925
growth period 9925
plant introduction 6168
Lavender (*see Lavandula*)
Layers, *Persea* 6248
Layouts (*see* Experimental designs)
Leaf
Arachis 4524
Avena 8639
Beta, sugar beet 7122, 9872
Betula 686
Brassica, cabbage 4669
Cajanus 8360, 8362–8363
Citrus 7574
Cocos 3042
Corylus 8235
Elaeis 8107
Glycine 6456, 10149
Gossypium 467, 3760, 8000, 8910
Hordeum 2514, 7855
Lactuca 8283
Lycopersicon 5528
Medicago 7923
Morus 9994
Nicotiana 1336, 2104, 3815
Oryza 5090, 5918
Phoenix 6244
Pinus 695, 4640, 5470
Pisum 2388, 5585, 7923
Prunus, peach 8180
Secale 7786
Sesamum 3834
Solanum, potato 4437, 7978
Sorghum 5029, 9654
Spinacia 10088
Thea 6132
Theobroma 2966
Triticum 1030, 2514, 5728, 6699, 7734
Vitis 6279
Zea, maize 6583, 6674, 7797, 7817, 8694
Leaf, anatomy
Beta, sugar beet 3789
Brassica 10083
Coffea 5285
Glycine 8345
Gossypium 6046
Pennisetum 9648
Pinus 7357
Populus 3122
Secale 5801
Thespesia 2084
Trifolium 5164
Zea, maize 8695
Leaf, colour
Allium, minor species 729
Brassica, mustard 6150
Brassica, oil crops 2131, 9001
Cryptomeria 705
Dactylis 7911
Desmodium 8875
Gossypium 1283, 8910
Hordeum 5862
Ipomoea 5214
Malus 9068
Medicago 3700
Nicotiana 2103, 2922, 5267, 6113, 8991
Oryza 5109
Pisum 4741
Pyrus 7221
Raphanus 10076
Vitis 7322
Leaf fall
Citrus, tangerine 632
Malus 6202, 7244, 9057
Pyrus 7244, 9057
Quercus 1500
Leaf, number, *Zea,* maize 9583
Leaf, number of parts, *Cajanus* 5592
Leaf, shape
Citrus 8184
Glycine 829
Leaf, shape *contd.*
Gossypium 1283, 5218
Hibiscus 485
Medicago 5152
Morus 6240
Nicotiana 7133
Phaseolus 2360, 4724
Pisum 2384
Quercus 6313
Solanum, egg plant 3198
Vigna 819
Leaf, size
Avena 1752
cereals 1752
Elaeis 5320
Eleusine 5886
Glycine 5573
Gossypium 7083
Hordeum 1120
Lolium 1963
Lupinus 1220
Malus 5356
Medicago 5968
Oryza 5105

Sorghum 8770
Thea 538
Triticum 977, 2562, 6680, 6726, 9468
Zea, maize 5820
Leaf, size, technique, *Hevea* 1390
Leaf, weight
Lotus 1223
Medicago 9729
Raphanus 5489, 6348
Leek (*see Allium,* leek)
Legislation
crop plants 909, 6598, 8479, 8482–8483, 8490–8491
forest trees 1480, 1493
vegetable crops 4651
Vitis 3084–3089
Leguminous forage crops
Agrobacterium, physiological races 1977
annual habit 2787
biennial habit 2787
breeding
India 8803, 9316
Poland 8835
UK 1953
chemicals, as plant constituents
aminoacids 8836
γ-glutamylphenylalanine 8836
protein 7645
chromosomes, number 2787
heat and drought resistance 348
Heterodera 6966
history and evolution 3696
Meloidogyne 6966
plant collections 348–350, 5959
plant introduction 381–382, 6932, 9684–9685
polyploidy 2787
quality, for nutrition 4400
Rhizobium 385, 1978, 2788, 5961, 6965, 7925, 9933
physiological races 1977, 7924
Rhizobium, technique 7924
seed 384
selection, artificial 4400
taxonomy 8836
varieties
Australia 6938–6939
Estonian SSR 7902
USA 9374
USSR 5936
variety trials
Austria 3305
Canada 353
Italy 7601
Lemon (*see Citrus,* lemon)
Lens
chemicals, as plant constituents, homoserine 9263
chemicals, mutagenic effects, ethyl methanesulphonate 5591
chromosomes, aberrations 848
climate 5590
crossing over 847
cytology, technique 1673
γ rays 847, 5590–5591
habit 2395
history and evolution 10173
***Lens* contd.**
mutation, induced 5591
neutrons 848
quality, for cooking 4747
Sitona 849, 1638, 2396, 6484
taxonomy 6963
varieties
Bulgaria 5588
Hungary 5589
variety trials, Bulgaria 4087
Lentil (*see Lens*)
Leptinotarsa, Solanum, potato 446, 4178, 8901, 9794
Leptosphaeria
Avena 5796, 9517
Oryza 9678
Triticum 1040, 1799, 1803, 3509, 3511, 4253, 4855, 5776, 8622
physiological races 4896
***Leptosphaeria,* technique,** *Avena* 5797
Lespedeza
chemicals, as plant constituents
lignin 4425
tannin 4425
Meloidogyne 1215, 8866
Lethal yellowing, *Cocos* 7292
Lethals 6520–6521
Nicotiana 3808
Oryza 6920
Pyrus 7221
Lettuce (*see Lactuca*)
Leucaena
chemicals, as plant constituents, mimosine 5943, 8252
habit 5943
hybridization 5943
plant introduction 5943
Rhizobium, physiological races 5960
variation 8252
variety trials, USA 8252
Light, effect of
Brassica, cabbage 3155
Cicer 845
Coffea 8077
Cucumis, cucumber 7418

Glycine 9292
Gossypium 9819
Hordeum 5862
Ipomoea 5214
Lactuca 7402
Lycopersicon 1583, 2345
Miscanthus 5142
Nicotiana 532
Oryza 2740, 5105, 5110
Picea 3140
Pisum 9209
Puccinia 5318
Solanum, potato 2016, 2855
Triticum 2563, 8579, 9489
Zea, maize 3603, 4960

Ligule
Triticum 3446, 6699
Zea, maize 1078
Lilium
chemicals, as plant constituents, oil, essential 9018
chemicals, fertility and sex, effects, cytokinins 6527
hybridization, interspecific 9018
polyploidy 9018
sterility, self 6527
Lima bean (*see Phaseolus*)
Lime (*see Citrus,* lime; *Tilia*)
Linkage 6, 1652, 2407, 6517, 6519, 7530–7531, 7540
Brassica 9047
Brassica, oil crops 2131
Cajanus 8362, 8364
Cochliobolus 250
Desmodium 8875
Gossypium 2047–2048, 9807, 9809
Helianthus, sunflower 8096
Hordeum 2690, 4345, 5852, 7837, 7862, 9325
Lycopersicon 781
Nicotiana 2950
Oryza 319, 3673, 5101, 6919
Pennisetum 285
Phaseolus 9278
Pisum 7234
Solanum, potato 5195

Linkage *contd.*
Sorghum 9665
Spinacia 6327
Triticum 116, 976, 2594, 5716, 6699
Zea, maize 2668, 3340, 4942, 9559
Linkage, sex (*see* Sex linkage)
Linseed (*see Linum*)
Linum
1295
breeding
France 9829
German Democratic Republic 5229
India 8009
USSR 1291, 2070
chemicals, as nutrients, miscellaneous 1293
chemicals, as plant constituents
flavonoids 6551
linoleic acid 9901
linolenic acid 9900–9901
nucleic acids 8930
oil, fatty 475, 1289–1291, 2077, 2128, 4791, 9900–9901
oleic acid 9901
peroxidase 2887, 8933
phenols, technique 8933
protein 4460
chemicals, general effects, herbicides 1294
chemicals, mutagenic effects
ethyl methanesulphonate 475, 5231, 6054
miscellaneous 3769
N-nitroso-*N*-methylurea 6054
cold resistance 2071, 8012
colour 5231
combining ability 1290, 9831
development, abnormal 2074
development and growth 8012
flower 2074

Fusarium 2077, 2889, 3769–3770, 5232, 6055–6056, 6551, 7098, 8015
physiological races 5233
γ rays 475, 2128, 8931
genetics
colour 5231
heterostyly 7096
Melampsora 479, 2890, 6057, 8014
genotrophs 2885–2887, 5230, 8930
germination 934
growth period 2077, 4459, 8928, 8931
haploidy 7095
heat and drought resistance 4459
height 8931
heterosis 477
heterostyly 7096
heterozygosis 5230
history and evolution 478, 2888
hybridization, interspecific 2888
lodging 1292, 4459

Melampsora 2076, 2888, 2890, 3391, 3770, 4460, 5232, 6055, 6057, 8014, 8928
physiological races 479
multiple alleles 7097
multiple genes 2075
mutation 5230
mutation, induced 475, 1289, 2128, 3769, 5231, 6054, 8931
Mycosphaerella 942, 3391
Nectria 1295
plant collections 8010
pollen 478
Polyspora 2076
quality, of fibre 6055, 9831
seed, colour 1289
seed, weight 1289
sowing 1292
stem 6054
sterility, male 2075, 7097, 8013
sterility, male, cytoplasmic 8932
temperature, effect of 934
variation 477
varieties
France 9829
Lithuanian SSR 6052
Netherlands 1721
Rumania 8011
USSR 2073, 6053, 8929

Linum *contd.*
variety trials
Netherlands 2072, 7094
Poland 2071
Rumania 3768, 4459
USSR 9830
yield components 476–477, 2888
Lipaphis, Brassica, turnip 5996
Liquidambar
chromosomes, number 678
ecotypes 689
hybridization, interspecific 678
photosynthesis 689
Litchi (*see Nephelium,* litchi)
Lobelia, chemicals, as plant constituents, lobeline 7207
Lodging 6457
Agropyron × *Triticum* 7711
Avena 9517–9518
cereals 90–91, 4187, 5691
Eleusine 6560
Glycine 3227
Helianthus, sunflower 8103
Hordeum 4353, 5875, 6885, 8422
Linum 1292, 4459
Oryza 333, 4386, 5038
Secale 212, 1056, 4927, 6795, 8643, 8655–8657
Secale × *Triticum* 7711, 8558
Sorghum 3317
Triticum 97, 993, 1794, 1794–1795, 3502, 3502, 4892, 6762, 7596, 7678, 7739, 9489, 9495
Zea, maize 1095–1096, 1881, 3598
Lolium
adaptation, genetic 4406
altitude 2769
aneuploidy 2768, 3681, 6608, 6953
botany 8822
breeding, technique 8438
chemicals, as nutrients
magnesium 3683
nitrogen 2772, 3682, 4406, 6608, 7906
sodium 3683
sulphur 7906
chemicals, as plant constituents
carotenoids 7917
nitrogen 7906
perloline 8817
protein 7906
sulphur 7906
chemicals, cytological effects, colchicine 8819
chromosomes, accessory 1964
cold resistance 4121, 8823
combining ability 3682, 4407
competition 1182, 4406, 5978
density of stand 1182, 4407, 5136
development and growth 1178
diallel analysis 4407
embryo culture 1179
embryo, size 1180
endosperm 6955
genetics, yield components 3680
genome analysis 2768
grazing 4406, 6954
growth period 2769
habit 1963, 4408, 6956
Helminthosporium 6943, 8447
heritability 4408
heterosis 6608, 8818
hybridization, interspecific 1179, 1964, 3681, 3732, 7918
inbreeding 1178
leaf, size 1963
meiosis 1964, 2768, 3681
mowing and cutting 2771, 6954
perennial habit 4403
pollen 8820
pollen, size 2770
pollination, technique 1950
polyploidy 1178, 1180, 4121, 5135, 6933, 6953–6954, 7906

polyploidy, technique 8819
Puccinia 8438, 8447, 9690
Pyricularia 8487
quality, for nutrition 1181, 4403, 8438
selection, artificial 1963, 2771
sterility, male 2770
stomata 372

Lolium *contd*
synthetic varieties 6608
taxonomy 8438
taxonomy, technique 9702
tillering 5136
tissue culture, technique 6955
variation 6956
varieties
Italy 371
Netherlands 1718, 7632
New Zealand 6952
Switzerland 5126–5127, 6933, 6936
varieties, classification 2758
variety trials
Italy 7600
UK 370, 2502, 7915, 9700
USA 3676
weeds 4406
Wiseana 5978
yield components 1181, 3682, 4408, 8821
Lolium × ***Festuca,*** hybridization, intergeneric 1179, 1183, 1185, 1964, 2773, 5949, 7919, 8438, 8458, 8816–8817, 9703
Longan (*see Nephelium,* longan)
Longevity
Cicer 2351
Glycine 2351
Phaseolus 2351
Lonicera, breeding, USSR 10018
Lophodermium
Pinus 697, 3138, 4641, 7360
variation 4641
Loquat (*see Eriobotrya*)
Lotus
chemicals, as plant constituents
cyanogenetic compounds 1733, 2002, 3717
nucleic acids 6991
chromosomes, aberrations 3716
chromosomes, number 1225, 6991
clines 2002
combining ability 2828
diploidy 3716
grazing 2002
heritability 2828
hybridization, interspecific 3716
leaf, weight 1223
meiosis 3716
polymorphism 2002, 2409
selection, artificial 2409
stem, anatomy 5174
sterility, male 3716
taxonomy 1224–1225, 5174, 6963
variety trials, Canada 408
vascular tissue 5174
Lotus (*see Nelumbium*)
Lucerne (*see Medicago*)
Lucerne, Townsville (*see Stylosanthes*)
Luffa
chemicals, fertility and sex, effects, gibberellins 5514
meiosis 2327
polyploidy 2327
sex 5514
yield components 10104
Lupin (*see Lupinus*)
Lupinus
breeding
Poland 5991
Sweden 4124
Ukrainian SSR 5990
White Russia 9747
White Russian SSR 5989
chemicals, as plant constituents
alkaloids 406, 3715, 5172, 5992
aminoacids 8869
enzymes 9750
leucine aminopeptidase 8870
miscellaneous 405
protein 7954
chemicals, general effects, herbicides 9750
flower 1219
flower, colour 6990
flowering 1219, 5173
fruit, number 3714
Fusarium 5991
γ rays 5172

genetics 405
alkaloids 5992
flower, colour 6990

Lupinus contd.
genetics *contd.*
leucine aminopeptidase 8870
growth period 1221
history and evolution 8870
leaf, size 1220
mutation 1220
plant collections 1216
pollination 1222
radiation 2827
recombination 9748
selection, natural 406
taxonomy 407, 8870
variation 1219
varieties
Australia 1218
Poland 5991
Ukrainian SSR 8868
variety trials
Ukrainian SSR 8867
USSR 1217
viruses 1216

Lycopersicon
α rays 9247
agronomy 10120
Alternaria 6422, 10124
anatomy 1578
andrecium 9248
aneuploidy 7436
anther culture 785
back crossing 779, 6426
breeding 2328
Argentina 1561
French West Indies 1695
Italy 3952, 3990, 6332, 8299
UK 4649
breeding, technique 4692–4693
calyx 792
chemicals, as nutrients
boron 6416
carbon dioxide 10116
miscellaneous 6405
nitrogen 1579, 4011
chemicals, as plant constituents
acid phosphatase 1567
acids 4011, 4700
aminoacids 8307
ascorbic acid 789, 3189, 4709, 8312
β-carotene 779
carotenoids 1577, 4709, 7428
chlorophyll 3188, 5532
citric acid 2340
enzymes 2341, 8310
esterase 2332
ethylene 9249
growth regulators 7439
malic acid 2340
miscellaneous 933, 3349
pectin 10112
pectin esterase 1575
peroxidase 1583, 2345, 7440
phenols 4713, 6422
phosphorus 9250
polygalacturonase 6417
protein 2332, 3188, 7437
rishitin 10123
sugar 788, 4709, 7437
tannin 6422
chemicals, cytological effects
colchicine 5528
diethyl sulphate 5528
ethylamine 1568
hydroxylamine 1568
triethylamine 5528
chemicals, fertility and sex, effects, gibberellins 3182, 4007
chemicals, general effects
carbon dioxide 770, 786, 7604
CCC 8506, 9254
2-chloroethanephosphonic acid 3185, 9253
ethylene 1567
gibberellins 8506
growth regulators 8311
ozone 791, 2342, 6421
chemicals, mutagenic effects
colchicine 3180, 5528
diethyl sulphate 3180, 5528
dimethyl sulphate 6341, 6411, 9246
ethyleneimene 7431
miscellaneous 3178, 4004, 4653
N-nitroso-*N*-ethylurea 7431

Lycopersicon contd.
chemicals, mutagenic effects *contd.*
N-nitroso-*N*-methylurea 6411, 6410, 9246
triethylamine 5528
chimeras 4003, 4707, 7430
chloroplasts 784, 4003
chromosomes, aberrations 1568, 3180, 4705, 5528–5529, 7434, 9336
chromosomes, morphology 6412
chromosomes, morphology, technique 1569
Cladosporium 1537, 3172, 3175, 4017, 5536, 6398
physiological races 4018, 4175
cold, effect of 4006, 4154
cold resistance 4711–4712
Colletotrichum 1582
colour 3999, 6417
combining ability 5520–5522, 5526, 8305, 9197
Corynebacterium 2330, 3191, 7427
physiological races 3190
crossing over 783
cytoplasmic inheritance 784, 4003
density of stand 6396
development, abnormal 7433
development and growth 1579, 3184, 7438, 9242, 9253
diallel analysis 2406, 5526, 6404
Didymella 9208
Drosophila 7445
electricity, effect of 1566
epidermis 9257
Erwinia 4016
fertilization, sexual 10070
flowering 4006, 6415
fruit 1578, 7438, 9249, 9253
fruit, anatomy 10112
fruit, colour 779, 6418, 7428
fruit cracking 792, 4014
fruit, number of parts 777, 10108
fruit, weight 10110
fungi 1561, 6423
Fusarium 3192–3193, 4017, 4714–4715, 6592, 9255
physiological races 2343–2344, 4713, 5535
γ rays 782, 1565, 2334, 3181, 5527, 7431–7432, 7438, 8308, 9246
genetics 780
calyx 792
β-carotene 779
carotenoids 1577, 7428
chloroplasts 784
citric acid 2340
Cladosporium 4018, 4175
cold resistance 4712
colour 3999
fruit, colour 7428
fruit, number of parts 777, 10108
Fusarium 2343, 3193
germination 2338
habit 3179, 9202, 9252
malic acid 2340
Meloidogyne 8315
organic acids 4700
Phytophthora 3194, 10123
Pyrenochaeta 8314
seed, size 3177
shedding 6404
sterility and fertility 3183, 5531
sterility, male 4007, 6413, 9243
sterility, self 1572, 8309
viruses 3196–3197, 4716
germination 2336, 2338, 4154, 4711, 10117
glass and plastic, cultivation under 787, 3957, 3993, 3995, 6419, 7429
Glomerella 1582
grafting 4003
growth period 789, 2337, 3175, 3185, 4696, 6395, 6415, 7429, 7641, 10110
gynecium 3187
habit 1567, 3176, 3179, 9202, 9252
haploidy 6342
harvesting, mechanical 1580, 5516, 7441–7442, 10071, 10107
heat and drought resistance 8453
heat, effect of 6406
height 2334, 3181, 5528, 9243
heritability 2333, 5526, 8312, 10108

Lycopersicon contd.
heterosis 1564, 2332–2333, 3177, 3349, 4701–4703, 5524–5527, 6405, 6407–6409, 6415, 7642, 8305, 8307, 8310, 8506, 9242, 9244, 9250, 10109–10111
heterostyly 4007, 10109
history and evolution 2341, 5534, 6412
hybrid varieties 2329, 2331, 3993, 4012, 4132, 4703, 5518, 6332, 6398, 6409, 8313, 8430, 9197, 9211, 9240
hybrid varieties, technique 9245
hybridization 4017, 5532, 6406
hybridization, interspecific 779–780, 795, 2338, 3183, 4000, 4013, 4705, 5523, 5527, 5530–5531, 7428, 7430, 8306, 8310, 8312, 9208, 10122, 10127
hybridization, technique 4701
inflorescence 6407
laser beams 9336
leaf 5528
light, effect of 1583, 2345
linkage 781
matrocliny 4712
mechanical injury 790, 1580, 6420, 10112
meiosis 4705–4706, 7435
Meloidogyne 793, 3195, 6426, 7426, 7444, 8315, 9255, 10124
multiple alleles 7440
mutation 778, 781, 1567, 1571, 1578, 7433, 8309, 9248
mutation, back 4003
mutation, induced 782, 1566, 2334, 3178–3180, 4001–4002, 4004, 4653, 4707, 5528, 5534, 6341, 6410–6411, 7431–7432, 8308, 9246–9247
nematodes 1561
neutrons 782, 2334, 5529, 7436
paramutation 4704
parthenocarpy 5533, 7439
pathology 4013, 4015
photoperiodism 70
photosynthesis 787, 6405, 7641–7642, 8307
Phytophthora 9257, 10122
physiological races 3194, 6425, 10123
pleiotropy 778, 5534
pollination 6405, 6407–6408, 7642, 9245
pollination, technique 1573–1574, 6414, 8306, 10113–10115
pollution, atmospheric 791, 2342, 6421, 10111
polyploidy 4000, 5529, 8306
Pseudomonas 1695, 7443, 9256
Pseudomonas, technique 10121
Pyrenochaeta 8314, 9202
quality, for canning 2339, 3176
quality, for freezing 4009
quality, for nutrition 4008, 4709
quality, for processing 4010, 7422, 10119
quality, for storage 6417, 10118
quality, of edible product 787, 2406, 6418, 6618
radiation 6342
recombination 779
respiration 7604, 9249
Rhizopus 9055
root 7444
Rotylenchulus 5537
seed, colour 9245
seed production 2331, 4012, 8313, 9245
seed, size 3177, 6406, 8301
selection, artificial 4154, 4692, 4711
Septoria 1583, 2345
sex 3182
shedding 6404
sterility and fertility 1565, 3183, 3186, 3361, 4013, 5530–5531, 7430, 8306, 9251
sterility, male 1576, 2335, 3181, 4005, 4007, 4012, 4706, 6413, 8305, 9243, 10109
sterility, self 1571–1572, 4707–4708, 7440, 8309, 9251
taxonomy 5523, 6412
temperature, effect of 786, 1571, 3184, 3186, 3191, 10116
Tetranychus 794
transduction 3274
translocation 7435
Trialeurodes 1584
ultraviolet rays 2337

Lycopersicon *contd.*
variation 2341
varieties
Arab Republic of Egypt 7426
Armenian SSR 775
Australia 774
Bulgaria 3176
Canada 6585
Czechoslovakia 5517
France 9211
Georgian SSR 10106
German Federal Republic 3175
Italy 773, 3998, 5516, 9197, 10107
Japan 4017
Lithuanian SSR 4699
Mexico 1562
Netherlands 7424
Rumania 6402, 8304, 9241
UK 3172
USA 1563, 2330, 3174, 5518, 6399–6401, 6403, 7425, 7427, 8303
USSR 776, 5519
variety trials
Azerbaijan SSR 8302
Brazil 3171, 4698
Bulgaria 768–769
Canada 771–772, 10105
El Salvador 6397
Italy 3995–3997, 4694–4697, 5515, 6394, 7423, 8300
Poland 6398
Rumania 2329, 3173, 3994
S. Korea 3991
UK 1537, 3172, 3992
USA 770, 8301
USSR 6395
Venezuela 6396
Yugoslavia 3993
vascular tissue 3193
Verticillium 3172, 3998, 6424, 8300, 9255
viruses 795, 1561, 2346, 3175, 3196–3197, 4019, 4710, 4716, 6343, 6423, 8303, 8472, 9202, 10125–10127
physiological races 5538
X rays 3180, 4001, 5534
xylem 4715
yield components 5520–5521, 5524–5525
Lycopersicon × ***Solanum,*** hybridization, intergeneric 5523

Macadamia
breeding 4630
varieties, USA 6655
Mace (*see Myristica*)
Maclurolyra
chromosomes, number 9713
taxonomy 9713
Macrophomina
Corchorus, physiological races 484
Eleusine 5651
Glycine 830
Helianthus, sunflower 6162
respiration 484
Solanum, potato 437
Macrosiphum
Avena 8536
cereals 8536
Hordeum 8536
Solanum, potato 2868
physiological races 2038
Triticum 5786, 8536
Magnetism, effect of
Allium, onion 7558
Pisum 886, 888
Secale 7558
Mahihot, bacteria 2912
Mahonia, taxonomy 10024
Maize (*see Zea,* maize)

Male sterility (*see* Sterility, male; Sterility, male, cytoplasmic)
Malting quality (*see* Quality, for malting and brewing)
Malus
Adoxophyes 5346
Alternaria 5358
physiological races 8149
Anuraphis 9082
Apis 8153
apomixis 9069
breeding
German Federal Republic 3855
Sweden 9030
Ukrainian SSR 4556
USSR 9059, 9945
chemicals, as plant constituents
abscisic acid 7249
acids 9960
aminoacids 9960
ascorbic acid 3863, 6196, 9078, 9960
butanol 605
calcium 606, 8137
carotenoids 9078
catechins 9078
chlorophyll 4561, 9080
enzymes 9960
flavonoids 9083
miscellaneous 1404, 3862, 4562
nitrogen 9081
nucleic acids 9954
oxalate, calcium 5354
oxidase 9085
peroxidase 8148
phosphorus 8137
pigments 7251
potassium 8137
protein 4558, 8143, 9081
sugar 3863, 9062
vitamins 9075
wax 602, 5357, 7250
chemicals, fertility and sex, effects, 2-chloroethanephosphonic acid 4553
chemicals, general effects
2-chloroethanephosphonic acid 7244, 9057
defoliants 6202
growth regulators 3867, 9949
growth regultors 7252
iodide, potassium 9057
1-naphthylacetic acid 9079
potassium iodide 7244
succinic acid-2,2-dimethylhydrazide 3866
2,4,5-trichlorophenoxypropionic acid 9079
chimeras 599–600
climate 3008
cold, effect of 3008, 3120
cold resistance 592, 2194, 3860, 3868, 4564, 4566, 5348, 6204, 8148, 9080–9081, 9946, 9953–9954, 9956–9959
cold resistance, technique 9955

cork 4565
cuttings 9063
Cydia 5346
development and growth 5347, 8144, 9064–9065, 9073
dormancy 1402, 2190, 3120, 3854
Dysaphis 607, 8151
epidermis 7250
Eriosoma 7220
Erwinia 6205
Erysiphe 8147
experimental designs 9074, 9946
flowering 2190, 6195, 8141–8142, 9949
fruit 602, 3004, 5357, 7250, 9035, 9060
fruit, colour 600, 7251, 9068
fruit, shape 9071
fruit, size 5356, 8146
fruiting, biennial or irregular 9066
γ rays 600, 2189, 9064
genetics 2188, 8139
colour 8440
Phytophthora 3009
stem 4560
Venturia 608
grafting 610, 3006, 3869, 4558
growth period 3860, 5346, 5355, 6205, 9068
habit 7220, 9066
heat and drought resistance 1405, 9957
height 7249
heritability 7248
heterozygosis 9062
history and evolution 2193
Hoplocampa 7220
hybridization 598, 3349, 9070
hybridization, interspecific 609–610, 4558, 6181, 7220, 8151, 8440, 9063
Hyponomeuta 5346
inbreeding 598
irrigation 8146
leaf, colour 9068
leaf fall 6202, 7244, 9057
leaf, size 5356
meiosis 1396
multiple genes 7248
mutation 3004, 4559, 4565, 5352
mutation, back 599–600
mutation, induced 2189, 9064
nectar 3859
Nectria 6181
Panonychus 6181, 6203
photosynthesis 4561
Phytophthora 3009, 4176, 6206, 6543, 8147
Podosphaera 3869, 5359, 6181, 6203, 8150–8151, 9086
pollen 1396, 3005, 8140
pollination 601, 603–604, 2191–2192

pollination 8141, 8153, 9035, 9950
polyploidy 1396, 6181, 8440
precocity of bearing 6205
pruning 599, 3866, 8145
quality, for storage 593, 1403, 7228, 7252, 9076–9077, 9951–9952
quality, of cider 605
quality, of edible product 591, 3014, 3861, 4563, 5355, 9054, 9078
radiation 599, 3006
Rhagoletis 8152
Rhizopus 9055
root, size 9070
rooting capacity 8147, 9063
rootstock 609–610, 2190, 5353, 7249, 8147, 9058, 9945
scald 5357, 9083
Sclerotinia 4567
seed 8143
spur variants 1401, 3853, 4559
stem 4560
sterility and fertility 603, 2191, 3005, 3858, 6201, 9067
sterility, male 4553
sterility, self 9950
taxonomy 2193, 3007, 3864–3865, 9035
temperature, effect of 8140, 9071, 9076, 9083
variation 2188
varieties
Bulgaria 6199
Canada 596, 3001, 3003
Hungary 5351
Kazakh SSR 4555, 9948
Kirgiz SSR 8138
Switzerland 1397, 3857
UK 1393, 2187, 4557
Ukrainian SSR 7247
USA 594–595, 597, 608, 1398, 3002, 3856, 5350, 6200, 7246
USSR 9947
Yugoslavia 9061
varieties, classification 9072
variety trials
Canada 593, 4145
Poland 9946
Rumania 5348, 6197
UK 5349
USA 6198
USSR 592
Yugoslavia 5347, 7245
vegetative reproduction 4563
Venturia 591, 607–608, 1398, 3009, 5359, 6181, 7230, 8147, 9082, 9084–9085, 9087, 9960–9961
viruses 609–610, 3870, 8154, 9035
water balance 589, 1399–1400, 9956
yield components 9065, 9074
Malus × ***Chaenomeles,*** hybridization, intergeneric 9069

Malva
chemicals, as plant constituents
aminoacids 8881

Malva contd.
chemicals, as plant constituents *contd.*
protein 8881
quality, for nutrition 8881
variety trials, Ukrainian SSR 8881
Malvaceae
chemicals, as plant constituents, protein 6530
pollen 6530
Mandarin (*see Citrus,* mandarin)
Manduca, *Nicotiana* 8979
Mangel (*see Beta,* mangel)
Mangifera
Aceria 5395
centres of origin 7290
flower 5394
fruit 5394
fruit cracking 9997
history and evolution 7290
Mycetaspis 8187
Physalospora 1426
Rhizopus 9055
shedding 5394
varieties
India 1425, 7289
Indonesia 3899
South Africa 5393
Thailand 7576
variety trials
India 8186
Puerto Rico 1424, 7288
USA 5343
Mango (*see Mangifera*)
Manihot
breeding 7126, 7589
chemicals, as plant constituents
protein 3801
starch 2911
chromosomes, morphology 1326
Colletotrichum 2909
cuttings 2097
hybridization, interspecific 3800
meiosis 3800
plant collections 4140
polyploidy 3801
Pseudomonas 4140
sterility, male 3800
varieties, India 8050
variety trials
Brazil 2909
Tanzania 2908
viruses 2908
yield components 2910, 3802
Manioc (*see Manihot*)
Manures (*see* Chemicals, as nutrients)
Maple (*see Acer*)
Marasmiellus, *Oryza* 8795
Marasmius, *Theobroma* 2467, 2473, 4500, 5288, 7156
Marjoram (*see Origanum*)
Marrow (*see Cucurbita,* vegetable marrow)
Marssonina
Fragaria 6270
Populus 8248
Maternal inheritance (*see* Matrocliny)

Mathematics 1665, 4093
Matricaria
breeding, USSR 9024
cytology 577
history and evolution 577
hybridization, graft 9006
hybridization, intergeneric 577
sterility and fertility 577
taxonomy 577
variety trials, Hungary 5336
Matrocliny
Avena 9523
Begonia 2457
Brassica, rape 7164
Capsicum 5329
Fragaria 8196
Gossypium 3756
Lycopersicon 4712
Phaseolus 4725
Pinus 3135
Secale 3537
Triticum 9447
Zea, maize 1097
Matthiola
diallel analysis 3260
epistasis 3260
flower, colour 8377

Matthiola contd.
genetics, flower, colour 8377
Maturation period (*see* Growth period)

Mayetiola, *Triticum,* physiological races 5785
Meadow grass (*see Poa*)
Mechanical injury
Beta, sugar beet 4482
Brassica, cabbage 3154
Cucumis, cucumber 764
Fragaria 9045
Lycopersicon 790, 1580, 6420, 10112
Solanum, potato 1245, 2028, 4125, 5191, 8888, 9787
Vitis 3098, 3928, 3931, 8226, 8226
Mechanical injury, technique, *Solanum,* potato 8893
Medicago
anatomy 2810
Apis 3703, 4412
Ascochyta 8811, 8851
back crossing 2798
breeding
Spain 2789
USSR 5962, 7073
Uzbek SSR 1190
breeding, technique 9719
Bruchophagus 1990
chemicals, as nutrients, sulphur 2807
chemicals, as plant constituents
carotenoids 388
chlorophyll 1982, 5152
enzymes 6972
growth regulators 9732
linoleic acid 9730
lysine 7938
methionine 7939
protein 392, 396, 1985, 1985, 3701, 5967, 6969, 6972, 7939
protein, technique 9735
saponins 9734
chemicals, cytological effects, colchicine 9727
chemicals, general effects
sodium chloride 6974
2-(4-thiazolyl)benzimidazole 3704
chromosomes, aberrations 7934
chromosomes, morphology 2799–2801, 5966
cold, effect of 9730
cold resistance 1981, 4122, 6972, 9730
colour 5150, 5152
combining ability 1984, 2796, 3699, 7930, 7932, 8843
Corynebacterium 394, 5970, 8423, 9721
Corynebacterium, technique 395, 4417
cytoplasmic inheritance 5152
Dasyneura 5972
density of stand 2805, 5159
development and growth 1194
diallel analysis 1982, 2797
Ditylenchus 397, 4122
ecotypes 389, 1988
flower 1195, 5155, 7938, 9728
flower, colour 4412, 8844–8845, 9719
flowering 1194, 8848
fruit 5152
γ rays 7934
genetics 2797, 5152
colour 5150
leaf, colour 3700
ovule, number 8842
spiral habit 5625
germination 4413, 5162
growth period 1194
habit 392, 2802
heat and drought resistance 1981
height 9719
heritability 7931, 8842
heterosis 5964
history and evolution 1986
hybrid varieties 5151
hybridization 1984–1985, 4416, 5967, 6968, 9725
hybridization, interspecific 391, 2798, 3701, 5152, 5966, 7933
hybridization, wide 1190
Hypera 1979, 8448
inbreeding 1191, 9726
irrigation 7941
leaf 7923
leaf, colour 3700

Medicago contd.
leaf, shape 5152
leaf, size 5968
leaf, weight 9729
meiosis 2799–2801, 5152–5153, 5965–5966
Meloidogyne 397, 2810

mixtures of crops or genotypes 9736
mowing and cutting 2806, 4416, 8849
nectar 4412
ovule, number 8842
pathology 6970–6971, 8838
persistence 8849, 9736
Phoma, technique 5971
photoperiodism 1194, 2802
plant collections 6967, 6970, 8839, 8850
plant introduction 8837
pollen 2804, 5965, 5969
pollination 2803, 3703, 4412, 4415, 5155, 5157, 9728

polyhaploidy 9726
polymorphism 7940
polyploidy 1986, 2798, 5153, 9726
polyploidy, technique 9727
quality, for nutrition 393, 1193, 5158, 6969, 7939, 9733
Rhizobium, physiological races 386, 2809, 5160, 6973–6974
root 5940
salinity 6974, 7940
seed 1990
seed production 2808, 5156
seed, size 9724–9725
selection, artificial 8838, 9729
selection, artificial, technique 8851
selection, natural 1983
soil pH 8845
Stemphylium 8851
sterility and fertility 2798, 4415, 5965, 7935, 8843, 8848, 9726
sterility, male 391, 5151, 5964, 6968, 7932, 7934, 8846–8847, 9731
sterility, male, cytoplasmic 1984, 3702, 4414, 5151
sterility, self 390, 1196, 1987, 5157
synthetic varieties 2794–2796, 3698, 5940, 5963, 7929, 9720–9721, 9723

taxonomy 388, 1989, 6963
temperature, effect of 1194, 8843, 8847
Therioaphis 9720
tissue culture 1986
Uromyces 4418, 8851
variation 1983, 5968
varieties
Australia 5148–5149
Canada 5963, 7929
Chile 1980
Italy 8492
Spain 1981
USSR 7928
variety trials
Australia 1193, 5146
Bulgaria 3697, 5145, 5147
Cuba 1192, 2792–2793
Czechoslovakia 7927
Italy 6557, 7601
Kazah SSR 2790
USA 387, 1979, 2791, 7926
White Russian SSR 8841
Yugoslavia 8840
vascular tissue 5968
vegetative reproduction 7937
Verticillium 396, 3704, 4122, 4158, 5970, 8423, 8850
yield components 2805, 3703, 4415, 5154, 5156, 7923, 7931, 7936
Medicinal plants
breeding
India 9016
USSR 2993
chemicals, mutagenic effects, ethyleneimine 2178
mutation, induced 2178
radiation 2178
Megastes, *Ipomoea* 2872
Meiosis 22, 2443, 3438, 4107
Aegilops 3524
Aegilops × *Triticum* 130, 2532, 2546, 2559, 2559, 3422, 3430, 4217, 4228, 4840

Meiosis *contd.*
Agaricus 9314
Agropyron 3693
Agropyron × *Elymus* 376
Agropyron × *Triticum* 132, 2547, 3430, 6709
Allium, garlic 3149, 7391
Allium, leek 3963
Allium, minor species 35, 3149
Allium, onion 4098, 7561
Avena 4916–4917, 7778–7779
Beta, sugar beet 7118–7119, 9861, 9864
Brassica 3151
Brassica, cabbage 7397
Brassica, turnip 9753
Bromus 7913
Cannabis 1296
Capsicum 7201
Cenchrus 6940
Citrullus 8290
Citrus, grapefruit × *Citrus,* orange 7282
Corchorus 2891
Digitaria 6940, 6957
Elymus 375–376, 1189, 2783
Festuca × *Lolium* 1964
Fragaria 7301
Glycine 1610
Gossypium 7081, 7993, 8910, 9804
grasses 354, 1951
Helianthus, sunflower 5315, 8098
Hierochloe 5141
Hordeum 2699–2700, 4347, 6668, 6874, 8747, 9390
Lolium 1964, 2768, 3681
Lotus 3716
Luffa 2327
Lycopersicon 4705–4706, 7435
Malus 1396
Manihot 3800
Medicago 2799–2801, 5152–5153, 5965–5966
Morus 7286
Nicotiana 526, 2929, 7137, 8057, 8061
Ornithogalum 33
Oryza 326, 5110
Panicum 5880
Paspalum 2776, 6940, 8825
Pennisetum 286, 3635
Phleum 1176
Phytophthora 3745
Pinus 1519
Pisum 4742, 4773
Pisum × *Vicia,* broad bean 10159
Prunus, apricot × *Prunus,* plum 6215
Prunus, cherry 3885
Prunus, plum 7265
Psidium 7287
Pyrus 1396
Ribes, black currant 1438
Ribes, red currant 643
Roegneria × *Secale* 5683
Secale 210, 1053, 2506, 2623, 3540, 3542, 4922, 5800, 6668, 8649, 9390
Secale × *Triticum* 128, 2549, 2559, 3429, 4217, 4228, 5727, 6708–6710, 7708, 9419–9421, 9445
Solanum, potato 2844–2846, 2848, 7010
Themeda 5958
Trichosanthes 767
Trifolium, red clover 4421
Trifolium, white clover 401
Tripsacum × *Zea,* maize 2654
Triticum 139–140, 1774, 2506, 2559, 2561, 2575, 3693, 4228, 5740, 6668, 6705, 6725, 7712, 7717, 7728, 9443
Valeriana 3851
Vicia, broad bean 6522
Vitis 6281–6282
Zea, maize 231, 1854, 1858, 6819, 7810, 8697

Melampsora
Linum 2076, 2888, 2890, 3391, 3770, 4460, 5232, 6055, 6057, 8014, 8928
physiological races 479
Populus 5459
Meliaceae, flowering 5453
Melilotus
endosperm 4426
flower, colour 6989
hybridization, interspecific 4426
pollination 3713

Melilotus *contd.*
sterility and fertility 4426
varieties, Hungary 5144
Meloidogyne
Arachis 5324
Avena 206
Capsicum 8451
Coffea 2466
crop plants, physiological races 1742
Cucumis, melon 751
Daucus 8263
Glycine 6469, 9300
Ipomoea 2871
physiological races 8905
leguminous forage crops 6966
Lespedeza 1215, 8866
Lycopersicon 793, 3195, 6426, 7426, 7444, 8315, 9255, 10124
Medicago 397, 2810
Nicotiana 1338, 3804, 6129, 8052, 8977
Oryza 342, 9679
Phaseolus 3223
Prunus, almond 2268
Prunus, almond × *Prunus,* peach 2268
Prunus, peach 3891, 6234
Trifolium, white clover 9740
Vicia, broad bean 8323
Vigna 8454
Vitis 3933
Zea, maize 2672
Melon (*see Cucumis*)

Melon, water (*see Citrullus*)
Mendelism (*see* Genetics)
Mentha
cell division 4088
chemicals, as plant constituents, carvone 6490
chemicals as plant constituents, 3-dodecanone. 854
chemicals, as plant constituents
menthol 5595, 6489, 9018, 9932
oil, essential 852, 855, 1642, 1642, 1642, 5595, 6142, 7519–7520, 8367
pulegone 6489
terpenoids 853
chemicals, general effects, maleic hydrazide 6489
chimeras 5596
chromosomes, aberrations 3253
chromosomes, number 2399–2400, 6490
development and growth 4089, 6489
γ rays 851, 4088, 6488
genetics, oil, essential 852, 7519
hybridization, interspecific 851–855, 1642, 2399, 7519, 8366
mutation, induced 3253, 6488
polyploidy 1642, 2399, 3253, 6142, 9018
Pratylenchus 5597
Puccinia, physiological races 6491
rooting capacity 4089
variation 851
X rays 3253
Metaxenia (*see* Xenia)
Microcylus, *Hevea* 7209
Millet (*see Echinochloa; Eleusine; Panicum; Pennisetum; Setaria*)
Milling quality (*see* Quality, for milling and baking)
Mimosa, *Rhizobium* 5960
Mimulus
chemicals, mutagenic effects
hydroxylamine 7547
N-methyl-*N*-nitro-*N*-nitrosoguanidine 7547
mutation, induced 7547
Mint (*see Mentha*)
Miscanthus
chemicals, as plant constituents, protein 5142
hybridization, interspecific 5142
light, effect of 5142
Mitochondria
Beta, sugar beet 2091, 4473
cereals 1749
crop plants 931, 8393, 9376
Gossypium 8916
Pisum 837
Ribes, black currant × *Ribes,* gooseberry 9151
Secale × *Triticum* 9376

Mitochondria *contd.*
Triticum 2417, 6712, 9199
Zea, maize 2664, 2667, 4326, 8711, 9565
Mitosis (*see* Cell division)
Mitotic recombination
Glycine 3229, 10146
Puccinia 7767
Triticum 4859, 6720
Mixoploidy, *Vitis* 10040

Mixtures of crops or genotypes (*see also* Competition)
Agrostis 359
Coriandrum 1644
crop plants 6658
Cynodon 1872
Dactylis 7907
Festuca 359
Glycine 10150
Gossypium 71
Hordeum 276, 7856, 8741
Medicago 9736
Oryza 2745
Phaseolus 3216–3217
Sorghum 4366
Trifolium, red clover 6981, 9739
Trifolium, white clover 2817
Triticum 71, 3460
Zea, maize 1872–1873, 3595
Mixtures of crops or genotypes, technique, *Avena* 9525
Modifiers 2419
Brassica 2833
Cucumis, cucumber 3168
Cucumis, melon 7410
Solanum, potato 2016
Zea, maize 1839, 1841, 4944
Molecular genetics 2, 8, 14–15, 862–864, 870, 874, 877, 895, 898, 1651, 1664, 2412, 3263, 3275, 3278, 4094, 4760, 5606, 6495, 6505–6507, 6509–6516, 6518, 6534, 6537, 7526–7527, 7533, 7535, 7537, 7541–7542, 8378
Allium, onion 3273
Arabidopsis 873
Phaseolus 30, 882
Triticum 3264, 3421, 6701
viruses 9
Momordica
flowering 2317
polyploidy 2317
varieties, India 9238
Monilinia (*see Sclerotinia*)
Monogerm seed balls
Beta 6085, 6090
Beta, beetroot 4127, 4654
Beta, mangel 3304
Beta, sugar beet 501, 503, 1320, 3781, 5245, 6085, 6095, 6101, 6103, 7112, 8040, 8949, 8951, 8954, 8962, 9848, 9871, 9877, 9879–9880
Monoploidy (*see* Haploidy)
Monosomics (*see* Aneuploidy)
Morphology
crop plants 9341
Phytophthora 2968
Morus
chemicals, as plant constituents
flavonoids 9995
nucleic acids 2228, 4592
chemicals, mutagenic effects, colchicine 6239
fruit 6242
γ rays 6240
history and evolution 7286
hybridization, interspecific 7286
leaf 9994
leaf, shape 6240
meiosis 7286
mutation, induced 6239–6240
parthenocarpy 6241–6242
pollination 6241
polyploidy 2228, 4592, 5390–5392, 6239, 7286
Pseudomonas 2230, 6240
quality, for nutrition 2229
sex 5392
varieties, Ukrainian SSR 9993
variety trials
Azerbaijan SSR 6238
Rumania 2227

Mowing and cutting
Lolium 2771, 6954
Medicago 2806, 4416, 8849
Onobrychis 5988
Poa 9693
Secale 6796
Sorghum 5888
Trifolium, minor species 8862
Muhlenbergia, variety trials, USA 2784
Mulberry (*see Morus*)
Multiple alleles
Brassica, Brussels sprouts 9206
Brassica, cabbage 6366
Hordeum 2705
Linum 7097
Lycopersicon 7440
Oryza 3655
Triticum 2534
Ustilago 1101
Zea, maize 228, 2635, 2670, 5823
Multiple genes 3270
Allium, onion 6352
Beta, sugar beet 4483
Brassica, cabbage 3154, 3157
Cajanus 5592, 8360–8361, 8363
Cucumis, cucumber 9201
Cucurbita 6386
Glycine 5573, 5577
Hordeum 2716, 4359, 5850, 6889
Linum 2075
Malus 7248
Nicotiana 2932, 2951, 8070, 8973
Oryza 3656, 3672, 5923
Pisum 9937
Pseudotsuga 2290, 9191
Ribes, black currant 3058
Ribes, gooseberry 3949, 5406
Solanum, potato 2033, 2864, 5205
Sorghum 7580
Trifolium, minor species 2824
Triticum 3517, 5769, 6765, 6771–6772, 6775
Ustilago 2716
Vigna 3226, 6619
Vitis 5444
Zea, maize 1842, 4939, 7829, 9561
Musa
andrecium, number of parts 8201
chromosomes, number 4168
flower, number of parts 8201
Fusarium 3299, 3319, 3366
hybridization, interspecific 1452, 1454
Mycosphaerella 2247
Phyllachora 2247
Phytophthora 651
polyploidy 1454
sterility and fertility 1452
stomata 1454
taxonomy 7306
Uromyces 2247
varieties, Taiwan 6271
varieties, classification 1453
variety trials
USA 5416
Venezuela 1451
yield components 3067
Musca, *Allium,* onion 7386
Mushroom (*see Agaricus*)
Musk melon (*see Cucumis,* melon)
Mustard (*see Brassica,* mustard)
Mutation 18, 867, 1667, 2412, 2459, 3279, 5607, 6509, 8376
Apium 8286
Arabidopsis 2428
Arachis 563, 4522
Brassica, cabbage 7397
Brassica, oil crops 5301
Bromus 9698
Capsicum 3332
Cicer 2394
Citrus 9139
Cochliobolus 250, 2662
crop plants 1726, 4170, 8503
Cryptomeria 705
fruit crops 7242
Glycine 4735
Gossypium 461, 1278, 9808
Helianthus, sunflower 1363
Hordeum 1895, 2690, 3276, 5859, 8743
Lathyrus 2003
Linum 5230
Lupinus 1220
Mutation *contd.*
Lycopersicon 778, 781, 1567, 1571, 1578, 7433, 8309, 9248
Malus 3004, 4559, 4565, 5352
Nicotiana 3808, 4491, 6116, 9332
Olea 2144
Oryza 5918, 8788
Pennisetum 1134, 8765
Phaseolus 4724, 8330, 8335
Pisum 1629, 2383–2384, 2388, 7499, 8351, 10162, 10164
Pyricularia 8796
Rhizobium 1978
Secale × *Triticum* 3429
Solanum, potato 1236, 6006, 8886
Thuja 1533, 6326
Triticum 2535, 4226, 4858, 7650, 9440
Ustilago 3349
Vitis 3101, 10035
Zea, maize 1073–1074, 1076, 1841, 1850, 1864, 1868, 3339, 5823, 8665, 8689, 8917
Mutation, back
Lycopersicon 4003
Malus 599–600
Pisum 10162
Zea, maize 3342
Mutation, induced 18, 2429, 3278, 3449, 4097, 4765, 4767, 5614, 6520–6521, 7545 (*see also* Chromosomes, aberrations)
Aegilops 7719
Aegilops × *Triticum* 7719
Arabidopsis 18, 2429, 3278, 3449, 4097, 4765, 4767, 5614, 6520–6521, 7545, 1669, 3277
Arachis 2988–2989
Avena 1047, 2611, 4118, 5791–5792, 7776–7777
Beta, sugar beet 6105, 9859
Betula 10058
Brassica, cabbage 4669
Brassica, cabbage × *Brassica,* rape 2128
Brassica, kale × *Brassica,* rape 2128
Brassica, mustard 2128
Brassica, oil crops 2134–2135, 5302
Brassica, rape 2128, 2133, 3832, 8089
Brassica, turnip 5996
Bromus 7912
Camelina 2128
Cannabis 3771, 9833
Capsicum 574, 2173, 5331, 6622, 7200, 8116, 9023
Carum 2402
Citrullus 6384
Citrus 9986
Corchorus 6062, 9838
crop plants 928–930, 1727, 1729, 4100, 4764, 5664, 5668–5669, 7638, 8502
Cryptomeria 1497
Cucumis, cucumber 2323, 7418
Cyamopsis 411
Cydonia 5366
Datura 9930
Erwinia 2304
Fragaria 5411
fruit crops 8133
Glycine 1609, 6455–6456, 7481, 9287, 10143, 10148
Gossypium 458–459, 1260, 1275–1277, 2062, 3757, 3764, 6048, 7065–7067, 7079–7080, 9807, 9809–9811
Helianthus, sunflower 5316
Hordeum 16, 267, 1117, 1750, 1885, 1890–1894, 2427, 2696–2698, 3619, 4348–4350, 4809, 4999–5001, 5015, 5670, 5854–5858, 6569, 6667, 6870–6872, 6884, 7556, 7639, 7839–7843, 9625–9627
Humulus 2126
Ipomoea 451, 9797
Lathyrus 8877
Lens 5591
Linum 475, 1289, 2128, 3769, 5231, 6054, 8931
Lycopersicon 782, 1566, 2334, 3178–3180, 4001–4002, 4004, 4653, 4707, 5528, 5534, 6341, 6410–6411, 7431–7432, 8308, 9246–9247
Malus 2189, 9064
medicinal plants 2178
Mentha 3253, 6488
Mimulus 7547
Morus 6239–6240
Mutation, induced *contd.*
Nicotiana 2109, 3271, 3807, 5647, 7136, 7602
Olea 2145
Origanum 2402
Oryza 323–325, 1153–1154, 1165, 1927–1932, 2739, 3658, 3660, 3666, 4382, 5033, 5081–5082, 5102–5104, 5118, 5917, 5919–5920, 6621, 6921–6922, 7879, 7881–7882, 8786–8787
Panicum 5019, 5878–5879
Papaver 1350, 2128
Phaseolus 2359, 2361, 5558, 6433, 7458–7459, 8329, 8331–8333, 9272, 10136
Pinus 1497, 10154
Pisum 1728, 2382, 3244–3245, 4077–4078, 4653, 4742, 4809, 5584–5585, 5670, 6341, 7500–7504, 7639, 8349–8350, 8355, 8431, 9304–9305, 10128, 10160–10161, 10163
Poa 4121
Prunus, cherry 9978
Prunus, cherry 5374, 9977

Rhizobium 398
Saccharum 490, 2892, 7107, 8033
Saintpaulia 4766
Salmonella 1668
Salvia 2402
Secale 2620, 4272, 4921, 7781
Secale × *Triticum* 984
Solanum 9025
Solanum, potato 2842, 4436, 7007–7009
Sorghum 1689, 2725, 5894, 7875, 9654, 9666
Thuja 706
Tradescantia 17
Triticum 134–135, 990–995, 1750, 1772–1773, 1776, 2550–2555, 3307, 3311, 3443–3448, 3450–3451, 4225, 4227, 4854–4857, 4859, 5670, 5728–5737, 6667, 6719–6723, 7719–7724, 7752, 8575–8579, 9434–9439, 9444, 9508, 9511
Ustilago 7546
vegetable crops 716
Vicia, broad bean 2354, 3307, 5551, 5670, 7451, 9718
Vicia, vetch 1728, 9718
Vigna 4047, 7474
viruses 536
Vitis 3921, 6279–6280
Zea, maize 1075, 1840, 1851, 2636, 3341–3342, 4313, 5822, 5825, 6834, 7806–7807, 7821, 8713, 9569
Mutation, induced, technique
grasses 8806
Zea, maize 8690
Mutation, technique 7544
Mycetaspis, *Mangifera* 8187
Mycoplasmas, *Prunus,* cherry 8178
Mycosphaerella
Arachis 2167, 5654, 7192
Brassica, Brussels sprouts 6654, 7626
Linum 942, 3391
Musa 2247
Pisum 1636
physiological races 9311
Triticum 4895
Myristica, sex, technique 576
Myrothecium, *Solanum,* egg plant 6427
Myzus
Beta, sugar beet 3797
Nicotiana 8979
Solanum, potato 2868, 3750
Nasonovia, *Ribes* 6184
Nearctaphis, *Trifolium,* red clover 8860
Nectar
crop plants 68
Malus 3859
Medicago 4412
Prunus, almond 6302
Prunus, cherry 3026
Nectarine (*see Prunus,* nectarine)
Nectria
Abies 1528
Linum 1295
Malus 6181
Pisum 4083
physiological races 3249

Nectria *contd.*
Solanum, potato 7026–7027
taxonomy 1528
Nelumbium, history and evolution 2913
Nelumbo (*see Nelumbium*)
Nematodes
Beta, sugar beet 3796
crop plants 1741
Lycopersicon 1561
Prunus, almond 8129
Saccharum 1304, 6065
Solanum, potato 4434
Nepeta
chemicals, as plant constituents
citronellol 9017
geraniol 9017
Nephelium, **litchi,** fruit cracking 10025
Nephelium, **longan**
chemicals, fertility and sex, effects
2-chloroethanephosphonic acid 7575, 7575
N,N-dimethylsuccinamic acid 7575
flowering 7575
pollen 653
varieties, classification 652
Nephotettix, *Oryza* 5033, 5064, 5068, 5907
Neutrons 2429, 7434
Avena 2611, 9389
Brassica, oil crops 5302
Carum 2402
Crepis 9335
Cucumis, cucumber 10099
Glycine 6456
Gossypium 1275, 9809
Hordeum 6872–6873, 6880, 8747, 9389, 9626–9627
Lens 848
Lycopersicon 782, 2334, 5529, 7436
Origanum 2402
Oryza 7879
Phaseolus 7458, 8333
Pisum 1675, 3245, 7504, 10155
Saintpaulia 4766
Salvia 2402
Secale 4920, 7781
Triticum 3311, 3446, 4227, 5728, 6723–6724, 7723, 7752
Vigna 7474
Vitis 3922, 6280
Zea, maize 3555, 7806
Nicotiana
Agrobacterium 8064
agronomy 8970
Alternaria 2938–2939, 6578, 7145
Alternaria, technique 7146
aneuploidy 2926, 3810–3811, 7137, 8059
anther culture 527, 1336, 2105, 2111, 2113, 2438, 5274, 6116, 6118, 7229, 8062, 8969, 8984, 9890
back crossing 8976, 9892
bacteria 532
breeding
India 7129, 8981
Japan 7145
Moldavian SSR 7127
Netherlands 3813
New Zealand 516
USSR 2019, 2099, 6109
cell division 1334, 2929
Cercospora 1338, 2943–2944, 2947, 7147
physiological races 2942
chemicals, as nutrients
carbon, active 9890
kinetin 9890
magnesium 6128
miscellaneous 6124
nitrogen 5277
phosphorus 8993
chemicals, as plant constituents
β-alanine 8057
alkaloids 523, 523, 523, 2112, 2930, 2930, 5275, 7142, 8063, 8460, 8969, 8992
alkaloids, technique 6122
asparagine 8057
carbohydrates 6123
chlorine 8069
enzymes 7135
esterase 7649, 8990
glycine 8057
heterochromatin 2110
histone 6114–6115

Nicotiana *contd.*
chemicals, as plant constituents *contd.*
lysine 8057
miscellaneous 2927, 2931, 5269
nicotine 2914, 2932, 5647, 6111, 6123, 7602, 8055, 8973
nitrates 1337
nitrogen 5280
nornicotine 1335
nucleic acids 6114–6115, 8460
oil, fatty 530
peroxidase 2114, 7649
phenols 2114, 8460
protein 3809, 6114
ribunuclease 4494
sterols 5273
sugar 2937, 7147
chemicals, cytological effects
cytokinins 1334, 7135
p-fluorophenyalanine 889
chemicals, general effects
5-bromodeoxyuridine 7139
growth regulators 528, 8988
IAA 1331
nitrogen 2936
ozone 2115, 2937, 3817, 5276, 6126
tenuazonic acid 7146
chemicals, mutagenic effects
8-azaguanine 9332
5-bromodeoxyuridine 9332
ethyl methanesulphonate 3271
chloroplasts 3271, 3809, 4491, 7138
chromosomes, aberrations 4492
chromosomes, breakage 2110
chromosomes, morphology 8460, 8985, 9889
chromosomes, number 2111, 8985
chromosomes, pairing 2929
cold, effect of 6117
combining ability 3817
cytoplasmic inheritance 2107, 3808
development, abnormal 1331, 4494, 6114–6115, 7141
development and growth 523, 3815, 5270, 5277
diallel analysis 4495
dominance 2105
embryology 6120
Erysiphe 2950, 4495, 6578
fertilization, sexual 6120
flower 7141, 8057, 8974
flowering 6117
Fusarium 2117
γ rays 2109, 3813, 7136, 8060
genetics 1330, 1336, 2440
alkaloids 8992
Cercospora 1338
flower 8057
Fusarium 2117
gynecium 2104
leaf 2104
leaf, colour 2103, 2922, 8991
Meloidogyne 1338
nicotine 6111, 8055
pathology 6125
peroxidase 2114
photoperiodism 8056
pollution, atmospheric 531
protein 3809
Pseudomonas 8070
quality, for smoking 8066–8067
stem 2104
sterility and fertility 2107, 8974
viruses 2953
weather fleck 2935
yield components 6111
genotype × environmental interaction 2923, 7637
germination 5270
gynecium 2104
haploidy 526–527, 2111, 2438, 2440, 4492, 5271, 6116, 6118, 7139–7140, 722º, 8060, 8062, 8969, 8984, 8992
haploidy, technique 889
harvesting 8991
heat, effect of 8990
Heliothis 535
heliothis 8979
heritability 8056–8057, 8975
Heterodera 2119, 2951
heterosis 524, 2105, 2924, 7128, 7134, 8460
history and evolution 5273, 6125

Nicotiana *contd.*
hybrid varieties 2108, 2920
hybridization, interspecific 523, 525, 1331–1333, 1338, 2107, 2110, 2119, 2925–2927, 2944, 2953, 3271, 3809–3812, 3816, 4489–4490, 4492, 4494, 5268–5271, 5667, 6112–6115, 7135, 8052, 8059, 8061, 8063, 8065, 8433, 8460, 8985, 8988, 9889
hybridization, interspecific, technique 8058
inbreeding 10
leaf 1336, 2104, 3815
leaf, colour 2103, 2922, 5267, 6113, 8991
leaf, shape 7133
lethals 3808
light, effect of 532
linkage 2950
Manduca 8979
meiosis 526, 2929, 7137, 8057, 8061
Meloidogyne 1338, 3804, 6129, 8052, 8977
multiple genes 2932, 2951, 8070, 8973
mutation 3808, 4491, 6116, 9332
mutation, induced 2109, 3271, 3807, 5647, 7136, 7602
Myzus 8979
ovule 2927
pathology 2915, 2934, 6125, 8993, 9891–9892
Peronospora 519, 533, 1339, 2116, 2921, 2941, 2945, 3812, 3819, 5277, 5280, 6112, 6125, 6127, 7128, 7130, 7136, 7143–7144, 7148–7149, 8052, 8973, 8978
physiological races 2948, 5278–5279, 8994, 9893
Peronospora, technique 3820
photoperiodism 6119, 8056
photosynthesis 8986–8987, 8989
Phytophthora 2949, 4495–4496, 6590
physiological races 2118, 7150, 8460
Phytophthora, technique 4496

plant introduction 2946–2947
pleiotropy 5267, 7133
pollen 2927, 4493
pollution, atmospheric 531, 2115, 2935–2937, 3817, 5276, 6126, 8975
polyhaploidy 8061
polyploidy 1338, 2926, 3816, 4489, 4492, 5268, 5275, 6112, 8061
protoplast fusion 525, 2925, 2928, 3271, 5666
protoplasts 4758, 7140
Pseudomonas 1336, 3271, 3818, 8070
Pythium 534
quality, for smoking 2933, 2938–2939, 6113, 6121, 7131, 7142–7144, 8068, 8971–8972, 8980, 8991
respiration 8986–8987, 8989
root 3815
statistics 8068
stem 2104
sterility and fertility 1338, 2107, 2927, 3361, 5269, 6120, 7137, 8058, 8974
sterility, male 2108, 3813
sterility, male, cytoplasmic 3812, 3816, 4489, 5268, 5272, 6119, 8059
sterility, self 8990
stomata 2115
taxonomy 6125, 7649
temperature, effect of 532, 557, 3808, 3821
Thielaviopsis 2940, 5270, 6112, 6128
tissue culture 528, 889, 1332–1333, 3814, 4496, 6115, 6120, 7135, 7137, 7139–7141, 8064–8065, 8433, 9332, 9891
transformation 2106
varieties 520
Australia 8983
Austria 521, 521
Bulgaria 2914, 2921, 4488, 4490
German Democratic Republic 3805
Hungary 7131
New Zealand 7132, 7609
South Africa 2917
Taiwan 9888
USA 522, 2102, 3806
USSR 2099, 7130
varieties, classification 2919

Nicotiana contd.
variety trials
Australia 2101
Bulgaria 5266
Canada 1329, 2916, 3803, 8053, 8982
India 2100
Italy 3804
Moldavian SSR 8995
Pakistan 6110
Rhodesia 517
USA 520, 1328, 2915, 8054
Yugoslavia 518–519
viruses 536–537, 1336, 1340, 2102, 2921, 2952–2954, 3821, 4489, 4495, 5270, 6112, 6125, 6130, 7151–7152, 8052, 8071–8072
physiological races 8995
weather fleck 2935–2937, 5276, 8975
X rays 3807, 5647, 7602
yield components 529, 2108, 6111
Nigella, polyploidy 8111
Nigrospora (*see also Khuskia*)
Nilaparvata, Oryza 345, 1947, 3674, 5033, 5064, 5068, 5907
Nondisjunction
Hordeum 3621
Iseilema 6959
Zea, maize 8692

Nucleolus 2446, 3281
Agropyron × *Triticum* 6709
Allium, leek 4105
Allium, onion 27, 2445
Secale × *Triticum* 6709
Zea, maize 894, 9572
Nucleus
Allium, minor species 731
Allium, onion 2447
Avena 199
Carthamus 6163
Petunia 4758
Nucleus, number
Agaricus 5600
Ustilago 4823
Nucleus, size
Agaricus 5600
Allium, onion 7550
Secale 4273
Vicia, broad bean 7452
Numicia, Saccharum 5244
Nutmeg (*see Myristica*)
Nutrients (*see* Chemicals, as nutrients)

Nutritive value (*see* Quality, for nutrition)
Nuts, plant collections 2184
Oak (*see Quercus*)
Oats (*see Avena*)
Ocimum
chemicals, as plant constituents, oil, essential 4750
chromosomes, number 4750
Oenothera
chemicals, as plant constituents, L-phenylalanine ammonia lyase 2410
genetics, L-phenylalanine ammonia lyase 2410
***Oenothera,* mutation, induced** 8396
Oidium, Hevea 7209, 9027
***Oidium,* technique,** *Hevea* 9026
Oil palm (*see Elaeis*)
Oil plants
breeding 1355
USSR 1356, 9363
chemicals, as plant constituents 7645
oil, fatty 1356, 6147
protein 7645
varieties, Italy 6147
Okra (*see Hibiscus*)
Olea
breeding, Italy 5321
chemicals, as plant constituents
catalase 4520
miscellaneous 3842
oil, fatty 8126, 9939
peroxidase 4520
polyphenol oxidase 4520
chimeras 2144
cold resistance 4520
flowering 3843
γ rays 2145
mutation 2144
mutation, induced 2145
pollination 1372

Olea contd.
sterility, self 1372
varieties
Italy 2143, 6558, 7179–7180
USSR 4519
Oligonychus, Thea 3823
Olive (*see Olea*)
Onion (*see Allium,* onion)
Onobrychis
Ascochyta 7953
chemicals, as plant constituents
miscellaneous 6988
nitrogen 5987, 6987
protein 5987, 6987
chromosomes, number 65
development and growth 2826
flower, colour 8865
genetics, flower, colour 8865
growth period 5988
gynecium 8865
hybridization, interspecific 1213
hybridization, technique 8865
mowing and cutting 5988
pollination 2001, 8865
polyploidy 5986
quality, for nutrition 6987–6988
sterility, male 8865
taxonomy 1214, 6963, 9746
varieties, Hungary 5144
Oospora, Solanum, potato 5210, 8898
Ophiobolus
Avena 5796
Triticum 3507
Opuntia, plant introduction 9166
Orange (*see Citrus,* orange)
Orchard grass (*see Dactylis*)
Origanum
mutation, induced 2402
neutrons 2402
Origin of life 898, 6535
Ornithogalum
cell division 33
meiosis 33
Ornithopus
breeding, USSR 8872
embryology 2830
fertilization, sexual 2830
growth period 8880
heat, effect of 4427
pollen 2830
polyploidy 2830–2831
seed production 4427
sterility and fertility 2831
Orobanche
Cannabis 6059
Helianthus, sunflower 2982, 4516
Oryza
adaptability 1150, 9668
agronomy 4391
altitude 5033
anther culture 5924, 8785
Aphelenchoides 1946
asymmetry 87
awns 8786
β rays 5102
bacteria 7676
breeding 5035, 5081, 5088, 6911–6912
Australia 5051
Bangladesh 5047, 5076
Burma 5043
Colombia 3650, 5041, 7588
Fiji 2471
India 332, 338, 2732, 3330, 4795, 5042, 5908, 6913, 7877
Indonesia 5045
Japan 1923, 5037
Kazakh SSR 3371
Malaya 5046
Mexico 312
Pakistan 5048, 7876, 7894
Philippines 314, 5040, 5049, 5907, 9667
Portugal 1924
S. Korea 311
Sri Lanka 5044
Surinam 5052, 7614
Taiwan 313, 5036, 6910
Thailand 5050, 5076
Ukrainian SSR 5909
USSR 3652
Venezuela 2463
cell division 2740, 5917

Oryza contd.
chemicals, as nutrients
calcium 9383
miscellaneous 1161
nitrogen 331, 1162, 2752, 3670, 4386, 5038, 5091, 5093, 5925, 7884, 9676
phosphorus 4392, 5092, 7884, 9676
potassium 7884, 9676
zinc 5092, 9677
chemicals, as plant constituents
aminoacids 3665
amylose 3668, 5915
calcium 1164
chlorophyll 7881
gibberellins 1156, 2454
leucine 5925
lysine 5033, 5111, 5907, 5926, 8792, 9675
miscellaneous 6929
nitrogen 3664, 5074, 5109, 6924
nucleic acids 3661
oil, fatty 3669
peroxidase 3333
phenols 5931, 8798
prolamine 5111
protein 325, 329, 1152, 1164, 1937, 2746–2748, 3666, 3668, 4387, 4390–4391, 5033, 5069, 5071, 5111, 5907, 5915, 5925–5926, 6924, 7879, 8792, 9675
starch 3666–3667, 5069, 5907
sugar 5120
tryptophan 9675
chemicals, cytological effects
calcium 4379
magnesium 4379
chemicals, general effects
ethyl methanesulphonate 9673
gibberellins 1155, 5685, 5918
herbicides 4393, 5118
iron 5092
nitrofen 5118
nitrogen 345
paraquat 5118
pentachorobenzyl alcohol 8793
phenol 5914
propanil 5118
sodium chloride 1163
chemicals, mutagenic effects
butyl methanesulphonate 3659
diethyl sulphate 323–324, 1931, 1931, 2739, 3660, 7882
1,4-di(methanesulphonoxy)butane 5917
dimethyl sulphate 8787
ethyl methanesulphonate 323, 1154, 1931, 3659–3660, 5917, 6921, 8786
ethyleneimine 325, 3658, 5107
methyl methanesulphonate 3659
N-nitroso-*N*-methylurea 1153, 5104, 8787
radioactive isotopes 5102
Chilo 344, 1948, 5064, 5068, 7894
chromosomes, aberrations 5916
Cnaphalocrocis 2754, 7896
Cochliobolus 312, 340, 1164
cold, effect of 2753, 5077, 5079, 5110, 5907
cold resistance 5078–5080, 5116, 5928, 6621, 6928
colour 7881
competition 1941
Corticium 1944, 5058
cytology 6911–6912
cytoplasmic inheritance 1166
density of stand 331
development and growth 1159, 2740, 3335, 3655, 5033, 5075, 5108, 7888, 8789
dormancy 5106, 7889
endosperm 3658, 6916–6917
environment 6925
experimental designs 1940–1941
flooding 1942, 5076, 5929, 6927
flower 5087, 8790
flowering 2742
fungi 7676
γ rays 1165, 1929, 1931–1932, 2739, 3660, 5103, 5685, 6922, 7881, 8787, 9673
genetics 5914, 6911
Chilo 5068
colour 5913
Corticium 5058

Oryza contd.
genetics *contd.*
endosperm 6916–6917
gibberellins 2454
growth period 321
habit 9669
height 1148, 1158, 2454, 5072, 5907
Nephotettix 5068
Nilaparvata 1947, 5068, 5907
Pachydiplosis 5066
pentachlorobenzyl alcohol 8793
peroxidase 3333
photoperiodism 5072, 5907
Pyricularia 5055, 5058, 7892–7893
seed 5920
seed, size 1149
shedding 327
spikelets, colour 3656, 5100, 9669
starch 3667
sterility, male, cytoplasmic 3662
viruses 5057
Xanthomonas 334, 5058, 5062
yield components 321, 5072
genetis, growth period 6921
genotype × environmental interaction 318
germination 4383, 4388–4389, 5108, 5115, 6928
growth period 320–321, 1147, 1690, 2463, 2742, 5033, 5038, 5077, 5105, 5923, 6915, 6921, 7661, 7888, 7891, 9674
habit 4386, 9669
haploidy 1929, 5924
heat and drought resistance 5033, 5090–5091, 5093, 5117, 6621
heat, effect of 1921, 4383
height 1147–1148, 1155–1156, 1158, 1942, 2454, 5039, 5059, 5072, 5075–5076, 5907, 5918–5919, 5927, 7881, 7887, 9669
heritability 320, 5033, 5079, 5922, 7887, 8790
heterosis 1151–1152, 3657, 4380–4381, 5085, 7880, 9669
heterosis, technique 9670
history and evolution 2738, 2749, 6920
hybrid varieties 5085–5087
hybridization 5080, 5086, 5907, 5915
hybridization, interspecific 326, 1690, 2738, 2749, 5916, 6920, 8785, 9672
hybridization, technique 1921
inflorescence 1933
insects 1690
irrigation 2751, 5907
leaf 5090, 5918
leaf, colour 5109
leaf, size 5105
Leptosphaeria 9678
lethals 6920
light, effect of 2740, 5105, 5110
linkage 319, 3673, 5101, 6919
lodging 333, 4386, 5038
Marasmiellus 8795
meiosis 326, 5110
Meloidogyne 342, 9679
mixtures of crops or genotypes 2745
multiple alleles 3655
multiple genes 3656, 3672, 5923
mutation 5918, 8788
mutation, induced 323–325, 1153–1154, 1165, 1927–1932, 2739, 3658, 3660, 3666, 4382, 5033, 5081–5082, 5102–5104, 5118, 5917, 5919–5920, 6621, 6921–6922, 7879, 7881–7882, 8786–8787
Nephotettix 5033, 5064, 5068, 5907
neutrons 7879
Nilaparvata 345, 1947, 3674, 5033, 5064, 5068, 5907
Pachydiplosis 343, 1167, 5065, 5067, 5908, 6621
physiological races 5066
pathology 5058, 5063, 8518
photoperiodism 5033, 5072, 5077, 5907, 5923
photosynthesis 1159, 1934, 4384–4385, 5074, 5118, 7885
plant collections 1922, 5053–5054
pollen 3663, 6924, 9671
pollen, size 6926
pollination 8788
polyploidy 326, 3661, 9672

Oryza contd.
population genetics 2749, 3336
Pseudomonas 7891
Pyricularia 312, 332, 1165–1166, 1690, 1737, 2753, 3671–3673, 4397, 5033, 5055, 5058, 5120–5121, 5907, 5931, 6922, 6929, 7661, 7891, 8796
physiological races 341, 4395–4396, 5033, 5056, 5907, 5930, 6621, 7588, 7892–7893, 8797
Pyricularia, technique 1945

quality, for cooking 3666, 3668, 5069, 5112, 8791, 9674
quality, for milling and baking 8791
quality, for nutrition 330, 5069, 5112
radiation 3661, 4382
recombination 4378–4379
respiration 5075
Rhizoctonia 1944
root 5090
root, size 5033
salinity 2744, 2750, 5114–5115, 5653
seed 1932, 3660, 5110, 5920
seed, colour 5921, 8786, 8788
seed, shape 7883
seed, size 1149, 1944, 2743, 6918
seed storage 7676
seed, weight 4387
seedlings 6928
selection, artificial 1147, 3336, 6910
selection, natural 2749
shedding 327
Sitotroga 2755, 7895
Sogatella 5064, 5907
Sogatodes 346–347, 6930
soil pH 5092
sowing and planting date 313, 5927, 6910
spikelets 5104
spikelets, colour 3656, 5100, 9669
stem 5919, 7888, 8789
sterility and fertility 2750, 5079, 5086, 5104, 5116, 5916, 6926
sterility, male 1935, 9672
sterility, male, cytoplasmic 3662–3663, 5085, 5087, 5907, 7886
taxonomy 6911–6912
temperature, effect of 4378, 5072, 5106
tillering 328, 331, 8789
toxic soils 5092, 5113, 5907
variation 87
varieties 6911–6912
Colombia 2737, 4139, 4377, 5041, 8783
Hungary 5098
India 3654, 5042, 5099, 5908, 5912
Indonesia 5045
Italy 8492
Japan 1923, 4376, 7878
Philippines 317, 1926, 5049, 5907
S. Korea 7879
Sierra Leone 6915
Sri Lanka 5044
Surinam 5911
Ukrainian SSR 5909
varieties, classification 2743
variety trials 5039
Bangladesh 3653
Brazil 3297
Colombia 8783
Fiji 2733, 5097
India 5095, 6914, 7670, 9668
Ivory Coast 5096
Japan 315
Mauritius 2735–2736
Pakistan 1925

Peru 5910, 8784
Philippines 316, 2734
Taiwan 3651
USSR 3652
Venezuela 5094
viruses 340, 346–347, 2463, 5033, 5122, 5907–5908, 6930, 7897
physiological races 4398, 5057
water balance 1938, 6923
X rays 324, 5102, 5919–5921, 7879, 7882
Xanthomonas 332, 334–335, 338–339, 4394, 5033, 5058–5059, 5061–5062, 5119, 5907–5908, 5915, 6621, 7890

Oryza contd.
Xanthomonas contd.
physiological races 336–337, 1943, 5060, 8794
yield components 320–321, 1157–1158, 1160, 1927, 1933–1934, 1936, 1939, 2741, 2745, 2750, 3657, 4381, 4385, 5072–5073, 5922, 6925, 7880, 7885, 7887, 9669
Oryza* × *Polytrias, hybridization, intergeneric 322
Oryzopsis
taxonomy 2786
variety trials, USA 2784
Oscinella
Avena 9529
Zea, maize 1104
Osmosis (*see* Water balance)
Ostrinia
Capsicum 1387
Zea, maize 254, 2631, 2673, 4279, 4334, 4978, 4986, 8727
***Ostrinia,* technique,** *Zea,* maize 255
Oulema, Triticum 188, 9371
Ovary (*see* Gynecium)
Overdominance (*see* Heterosis)
Ovule, *Nicotiana* 2927
Ovule, number, *Medicago* 8842
Oxycoccus
development and growth 4613
flower 4613
taxonomy 1456
variation 3908
Ozonium, crop plants, physiological races 1740
Pachydiplosis
Oryza 343, 1167, 5065, 5067, 5908, 6621
physiological races 5066
Pachyrhizus, breeding, Mexico 1585
Paddy (*see Oryza*)
Palms
chemicals, as plant constituents, flavonoids 9146
taxonomy 9146
Panicle (*see* Inflorescence)
Panicum
breeding, USA 4819
chemicals, as plant constituents
nitrogen 6890
protein 5879
chemicals, fertility and sex, effects, 2,4-D 9645
chemicals, mutagenic effects
miscellaneous 5019
N-nitroso-*N*-ethylurea 5878
chromosomes, number 4168
colour 9646
evolution, general theory 2759
flooding 4362
γ rays 6890
growth period 8762
heat and drought resistance 1907
history and evolution 5880
meiosis 5880
mutation, induced 5019, 5878–5879
photosynthesis 2759
plant collections 1907, 9646
pollination, technique 9644
polyploidy 283, 5019
quality, for nutrition 6617
root 8807
sex 3633
taxonomy 5880, 6891
variation 283
variety trials
Hungary 1131
Rhodesia 5643
yield components 8762
Panonychus, Malus 6181, 6203
Papaver
breeding
Hungary 5293
USSR 8996
chemicals, as plant constituents
alkaloids 1351, 5294, 9897
codeine 2970
morphine 1350, 2124, 4505, 5293
chemicals, fertility and sex, effects
5-bromouracil 5295
uracil 5295
chemicals, mutagenic effects, *N*-nitroso-*N*-ethylurea 1350
chromosomes, morphology 9896

Papaver contd.
chromosomes, number 1351, 9896
flower, colour 4136
γ rays 2128
genetics 9353
flower, colour 4136
height 2969
seed, weight 2969
germination 934
height 2969
heritability 2124
hybridization, interspecific 5294
mutation, induced 1350, 2128
N-nitroso-*N*-ethylurea 1350
pollination 9353
seed, weight 2969
sterility, self 4136
taxonomy 9897
temperature, effect of 934
varieties, Hungary 5293
yield components 2125
Papaw (*see Asimina; Carica*)
Papaya (*see Carica*)
Paprika (*see Capsicum*)
Paramutation, *Lycopersicon* 4704
Parasexuality, *Verticillium* 7029
Parsley (*see Petroselinum*)
Parsnip (*see Pastinaca*)
Parthenocarpy
Capsicum 3848
Cucumis, cucumber 763, 3169, 7419, 10098
Elaeis 7177
Lycopersicon 5533, 7439
Morus 6241–6242
Prunus, peach 7278
Pyrus 3872, 4568, 9056
Vitis 3105, 10037
Paspalum
asynapsis 1969
chromosomes, number 6940
genome analysis 8487
history and evolution 8825
hybridization, interspecific 2776, 8447, 8825
meiosis 2776, 6940, 8825
varieties, India 1968

Passiflora
hybridization, interspecific 3907
taxonomy 655
Passion fruit (*see Passiflora*)
Pastinaca
quality, for storage 3162
variety trials, UK 6338
Paternal inheritance (*see* Patrocliny)
Pathogy, stone fruits 9097
Pathology
Arachis 8520
Beta 6083
Beta, sugar beet 8519, 8963
Cajanus 2349
cereals 953, 2513, 6673, 9396
Cicer 2349
Cocos 1431
crop plants 74–75, 897, 936–938, 1705, 1735–1738, 2493, 2495–2496, 3365, 4180, 5673–5674, 5676, 6660–6662, 7226, 7659–7660, 8373, 8500, 8512–8514, 8523–8525
Cucumis, cucumber 4690
cucurbits 2318
Fragaria 1449
Glycine 8520
Gossypium 8466, 8522, 8925
grasses 2760
Helianthus, Jerusalem artichoke × *Helianthus,* sunflower 7170
Hevea 2179
Hordeum 1125, 8422
Ipomoea 8519
Lycopersicon 4013, 4015
Medicago 6970–6971, 8838
Nicotiana 2915, 2934, 6125, 8993, 9891–9892
Oryza 5058, 5063, 8518
Pennisetum 8517
Phaseolus 3217, 8520
Pinus 673
Pisum 8520
Pseudotsuga 2291
pulses 2349
Ribes, black currant 3054

Pathology *contd.*
Ribes, red currant 3054
Rosa 6169
Saccharum 6075
Sesamum 550
Solanum, potato 430, 1246, 6066, 6611, 8519
Sorghum 301, 8517, 8777
Triticum 4249, 6768, 8516
vegetable crops 8521
Vitis 3115
Zea, maize 246, 4299, 8515, 8723

Patrocliny
Beta, sugar beet 9886
Capsicum 5329
Fragaria 8196
Iseilema 6959
Pea (*see Pisum*)
Pea, southern (*see Vigna*)
Peach (*see Prunus,* peach)
Peanut (*see Arachis*)
Pear (*see Pyrus*)
Pecan (*see Carya*)
Pectinophora
development and growth 8927
Gossypium 8927
Pectobacterium, *Solanum,* potato 8894
Pelargonium
chloroplasts 2423
cytoplasmic inheritance 2423

Pemphigus, *Lactuca* 9207
Penetrance, *Triticum* 1762, 1790, 2530
Pennisetum
apomixis 286
breeding
India 6893
Senegal 7864
South Africa 3634
USA 4819
chemicals, as nutrients
nitrogen 6899
phosphorus 6899
chromosomes, accessory 6898
chromosomes, morphology 6897
chromosomes, number 286
Claviceps 1753, 5884
climate 288
combining ability 1909, 5882
crossing over 3635
development and growth 5882
γ rays 287
genetics, sterility, male 1134, 8766
gynecium 8765
heat and drought resistance 6899
height 5882
heritability 284, 7865
heterosis 1132–1133
hybrid varieties 5633
hybridization 3635, 9647
hybridization, interspecific 286, 2475, 5884, 6894, 6896
inbreeding 3635, 9647
inflorescence 5883, 8765
inhibitors 5883
leaf, anatomy 9648
linkage 285
meiosis 286, 3635
mutation 1134, 8765
pathology 8517
polyploidy 286
Puccinia 1753
quality, for nutrition 5021, 7904, 9648
root 8807
Sclerospora 304, 1753
sterility, male 1134, 1909, 8766
sterility, male, cytoplasmic 288
Striga 1135
Tolyposporium 1753
translocation 287
variation 9647
varieties
India 8764
USA 924
variety trials
Brazil 8763
France 5025
Pakistan 1908, 6894–6895
Taiwan 352
viruses, physiological races 944

Pennisetum *contd.*
yield components 284, 1132–1133, 1909, 7865, 9647
Peponapis, *Cucurbita* 3166
Pepper (*see Capsicum; Piper*)
Peppermint (*see Mentha*)
Perennial habit
crop plants 3350
Lolium 4403
Phalaris 4403
Poa 6944
Secale 8650
Trifolium, minor species 9429
Periconia, *Sorghum* 302
Peronospora
Allium, onion 5492, 6351
Beta, sugar beet 2094, 9855, 9885–9886
Glycine 4067
physiological races 831
Helianthus, sunflower 5316
Humulus 1352
Nicotiana 519, 533, 1339, 2116, 2921, 2941, 2945, 3812, 3819, 5277, 5280, 6112, 6125, 6127, 7128, 7130, 7136, 7143–7144, 7148–7149, 8052, 8973, 8978
physiological races 2948, 5278–5279, 8994, 9893
Pisum 842, 7234, 7238, 7494
Raphanus 7370
Spinacia 6327
Vicia, vetch 8864
Peronospora, **technique,** *Nicotiana* 3820
Persea
chemicals, as plant constituents
oil, fatty 6249
terpenoids 10000
flowering 6247
layers 6248
rooting capacity 6248
taxonomy 10000
varieties
Argentina 2233
USA 5402
variety trials
Argentina 2233
USA 5343
Venezuela 3046, 5401
Persimmon (*see Diospyros*)
Persistence
Medicago 8849, 9736
Poa 9692
Trifolium 5163
Trifolium, red clover 1200, 7947
Petal (*see* Corolla)
Petroselinum × ***Apium,*** hybridization, intergeneric 3162, 4090, 8370
Petunia
cytoplasmic inheritance 9340
fertilization, sexual, technique 4775
haploidy 2439
nucleus 4758
pollination, technique 4777
protoplasts 4758
sterility, self 4777
tissue culture 4113
transformation 4755
Phages (*see* Bacteriophages)
Phakopsora, *Gossypium* 9825

Phalaris
cell division 2449
chemicals, as plant constituents
alkaloids 8826, 9707–9708
nitrogen 5951–5953
genotype × environmental interaction 9708
heritability 5951, 8826
perennial habit 4403
quality, for nutrition 4403, 5951–5952, 9708
seedlings 5953
synthetic varieties 3687
varieties, Canada 3687
yield components 5953
Phaseoleae
history and evolution 8317
xylem 8317
Phaseolus
Agronomyza 7469
Aphis 7468
Aspergillus 4044
bacteria 4041, 6442

Phaseolus contd.
breeding 6431
Hungary 7454
India 4795
USSR 10131
Venezuela 2469

Callosobruchus 816
cell division 4045
chemicals, as nutrients, nitrogen 1597
chemicals, as plant constituents
aminoacids 9275
carotene 6438
catalase 4043
catechol oxidase 4043
chlorophyll 10136
cyanogenetic compounds 3214
methionine 4725, 8316
miscellaneous 4177, 6442
nucleic acids 30, 882, 4726
peroxidase 4043, 7467
phaseolin 5546
protein 3214, 3218, 4726, 5562, 8316, 8332, 9275
sugar 1596
chemicals, cytological effects, *N*-nitroso-*N*-ethylurea 8334
chemicals, general effects
aluminium 6434
fungicides 4039
herbicides 7493, 9273
chemicals, mutagenic effects
diethyl sulphate 6433, 10136
ethyl methanesulphonate 8331
ethyleneimine 2361, 7459
N-nitroso-*N*-ethylurea 9269
N-nitroso-*N*-methylurea 8329
chromosomes, aberrations 8334, 10136
chromosomes, morphology 30, 804, 7461, 8399, 10137
chromosomes, number 804
climate 813
cold resistance 6439
cold resistance, technique 2365
Colletotrichum 4721, 5559
physiological races 1538, 1600, 2368, 3218, 4042, 4729, 5565
colour 810
competition 3222
Corticium 815, 5944
physiological races 3220
Corynebacterium 2366
cotyledon cracking 4728
development and growth 7462
endomitosis 882, 7460
flowering 6436
fruit 6440
fruit, number 10136
fruit, shape 8330
γ rays 2361, 5558, 7459, 8329, 8333–8334, 9269, 9272, 10136
genetics 6431
bacteria 2366
Colletotrichum 1538
colour 810
cotyledon cracking 4728
fruit, shape 8330
germination 3211
habit 2370
leaf, shape 2360
methionine 4725
photoperiodism 812
Pseudomonas 5563
quality, for processing 8335
seed, colour 811
shedding 810
Uromyces 2370
viruses 7473

Xanthomonas 9278
genotype × environmental interaction 3208
germination 1595, 3211, 3215
growth period 1597, 2362, 2366, 5559, 6439, 6443, 9278
habit 2370, 3222
harvesting 4038
harvesting, mechanical 2363, 6440, 7373, 9274
heat and drought resistance 5559
heritability 813, 2362, 9269
hybridization 4036, 9270–9271, 10134

Phaseolus contd.
hybridization, interspecific 55, 3211–3212, 5558, 8328, 10135
hybridization, technique 4723
interlocular cavitation 4727
leaf, shape 2360, 4724
linkage 9278
longevity 2351
matrocliny 4725
Meloidogyne 3223
mixtures of crops or genotypes 3216–3217
molecular genetics 30, 882
mutation 4724, 8330, 8335
mutation, induced 2359, 2361, 5558, 6433, 7458–7459, 8329, 8331–8333, 9272, 10136
neutrons 7458, 8333
pathology 3217, 8520
photoperiodism 812, 10137
plant collections 55
plant introduction 1590, 5559
pollen 805
pollination 4036, 9271
polyploidy 3212, 7461
Pseudomonas 1598, 2364, 2366, 5559, 8336
physiological races 1599, 4040, 5563
Pythium 3219
quality, for canning 2363, 6437, 9052
quality, for cooking 5559, 5561–5562
quality, for freezing 2363, 6437, 9041, 9052
quality, for nutrition 3213, 5944, 6438
quality, for processing 7455, 8335, 9274
quality, for storage 3213
quality, of edible product 4032
Rhizobium 7465–7466
physiological races 5564, 9264
Rhizoctonia, physiological races 4730
seed 1594
seed, colour 808, 811
seed, number 10136
seed, size 816, 3215
shedding 810
sowing and planting date 3215, 6439, 9277
sterility, male 10138
succession, crop 9277
taxonomy 804, 4726, 5546
temperature, effect of 7466
Uromyces 1739, 2364, 3321, 4043, 4721, 4731, 7467
physiological races 2369, 3221
Uromyces, technique 2370
variation 9271, 9276
varieties 2476
Arab Republic of Egypt 7457
Chile 7456
India 1592–1593, 2359, 8326
Mexico 8327
Netherlands 1724
Rumania 4035
UK 7455
Venezuela 8325
variety trials
Australia 5545
Brazil 1591, 4721, 9717
Bulgaria 2364, 5559–5560
Georgian SSR 10133
India 3208, 10132
Italy 3953, 4033, 6429
New Zealand 4722
Poland 2357
Rumania 4032, 4034, 6432, 8324
Spain 2358
Uganda 2476
UK 803
USA 808–809, 3209
USSR 1590
Venezuela 2469, 3210
Yugoslavia 4031, 9268
viruses 817, 3224, 4045–4046, 5566, 6444–6445, 7457, 7468, 7470–7472
physiological races 2352, 7453, 7473, 7594, 9280
water balance 6435
weeds 3222
X rays 2359, 7458, 7462, 8331

Phaseolus
Xanthomonas 4177, 6443, 7463–7464, 9278–9279, 10139
physiological races 6441
yield components 813, 4037
Philosophy 7524
Phleum
Amaurosoma 1958
breeding
Lithuanian SSR 5134
White Russian SSR 8804
chemicals, as nutrients, nitrogen 8809
chemicals, as plant constituents, nitrogen 8809
development and growth 1957
hybridization, interspecific 368, 1957
meiosis 1176
seed production 360
selection, artificial 360
sterility, male 2767, 9688
sterility, self 9687
varieties
Canada 6950
Lithuanian SSR 5134
Netherlands 1718
USA 2766
varieties, classification 2758
Phloem (*see also* Vascular tissue)
Phoenix
chemicals, as plant constituents
pectin esterase 1433
sugar 6245
fruit, size 5400
fruit, weight 6244
Fusarium 9998
germination 4598
growth period 1433, 5399
leaf 6244
pollination, technique 8189
variety trials, India 5399
Phoma (*see also Pleospora*)
Beta, sugar beet 7124, 8965
Solanum, potato 3740–3741
***Phoma*, technique**, *Medicago* 5971
Phomopsis*, *Thea 8073
Photoperiodism 4295
Allium, onion 3146, 9215
Amaranthus 5541
Avena 3529, 4267, 5793
Betula 3127
Bromus 9698
Cannabis 8019–8020
Carthamus 9915
Cicer 845
Cucumis, cucumber 759
Glycine 2478, 4059, 5577, 6458, 9293
Gossypium 8910, 9812
Hibiscus 1299, 8031
Hordeum 2707, 5851
Lycopersicon 70
Medicago 1194, 2802
Nicotiana 6119, 8056
Oryza 5033, 5072, 5077, 5907, 5923
Phaseolus 812, 10137
Pisum 7923, 10169
Ribes, gooseberry 2918
Saccharum 2087, 4470, 5241, 6065–6066
Secale 7788
Solanum, potato 2837, 7024, 9769, 9772
Triticum 149, 1780, 1809, 2566, 5743, 8585, 9448, 9454
vegetable crops 8259
Vigna 70, 4732, 6446
Zea, maize 4138, 4295
Photosynthesis 7544
Abies 699
Allium, onion 9215
Arachis 563, 7188
Atriplex 4720
Avena 9523
Beta, sugar beet 1321, 5258, 9869
Brassica 4668
cereals 3380, 8528
Cicer 4084
Citrus, lemon 9990
Coffea 3825
Cucumis, cucumber 7641
Elaeis 7176
Festuca 9706
Glycine 4060, 7484
Gossypium 461
grasses 2759, 6942, 8810
Helianthus, sunflower 1365

Photosynthesis *contd.*
Hordeum 2703, 2706, 2708, 9376, 9630
Liquidambar 689
Lycopersicon 787, 6405, 7641–7642, 8307
Malus 4561
Nicotiana 8986–8987, 8989
Oryza 1159, 1934, 4384–4385, 5074, 5118, 7885
Panicum 2759
Pisum 2386, 2388, 4078, 5584, 7641, 9937, 10164
Populus 7341, 7344
Solanum, potato 7978
Sorghum 2727
Triticum 146, 1002, 1006, 1044, 2568, 2573, 3467, 4879, 5074, 8614
Vitis 6287
Zea, maize 1074, 1080, 1098, 3577, 6583, 6825, 6830, 7642, 8663, 9577
Zea, sweet corn 7641, 9614
Photosynthesis, technique, *Triticum* 1005

Phragmites, ecotypes 9716
Phthorimaea, Solanum, potato 3750
Phyllachora, Musa 2247
Phyllocnistis, Citrus 2223
Phyllosticta, Zea, maize 2665, 4327, 8721, 8724
Phylloxera, Vitis 3920, 6297, 7331, 8227
Phylogeny (*see* Evolution, general theory; History and evolution)
Physalis
chromosomes, number 1455
taxonomy 1455
Physalospora, Saccharum 8033
***Physalospora,* technique,** *Saccharum* 1312
Physiology
Beta, sugar beet 3788
crop plants 2487, 7640
Glycine 3230
Gossypium 7082
grasses 355
Ipomoea 7041
Vitis 5441
Zea, maize 236, 1076, 3349, 4312
Phytophthora 8185
Agave, physiological races 1301
Capsicum 2497, 9019
Carthamus 559, 1371
Citrus 3039
Citrus, orange 8185
Citrus × *Poncirus* 3040
crop plants 2498–2499
physiological races 4181
diploidy 3745
Fragaria 7305, 9045
physiological races 648–649
Glycine 833, 1604, 1624, 3240, 4068, 7479, 9292
physiological races 2381, 6468, 7490
Hevea 7211
Lycopersicon 9257, 10122
physiological races 3194, 6425, 10123
Malus 3009, 4176, 6206, 6543, 8147
meiosis 3745
morphology 2968
Musa 651
Nicotiana 2949, 4495–4496, 6590
physiological races 2118, 7150

8460

Pinus 4642
Piper, physiological races 7196
Poncirus 8185
Prunus, plum 3879
Sesamum 4509
Solanum, potato 440–441, 1249, 1739, 2494, 2850

3745, 4125, 4432, 4434, 4436, 5188–5189, 5192, 5197–5198, 6019–6020, 6550, 6999–7000, 7030, 7033, 7661, 7984, 8439, 8899, 9755, 9767, 9791–9792
physiological races 442, 1250, 2863, 3742, 3744, 5637, 7032, 7972–7973, 7985, 9789
stone fruits 3879

Phytophthora *contd.*
Theobroma 543, 651, 2472, 2968, 3298, 4500, 4503–4504, 5292, 6138, 6140, 6144, 8082
Vaccinium 6259
variation 2968, 7211
Vigna, physiological races 3226
***Phytophthora,* technique**
Fragaria 648
Glycine 832
Nicotiana 4496

Solanum, potato 2863, 6017–6018, 6542

Theobroma 8086
Phytoptus, Ribes, black currant 6184
Picea
Adelges 1526
breeding
UK 10063
White Russian SSR 1494, 3936
cell division 3140
chemicals, as nutrients, miscellaneous 2289
chemicals, as plant constituents
calcium 4647
magnesium 4647
nitrogen 4647
nucleic acids 673
phosphorus 4647
potassium 4647
terpenoids 1525
chromosomes, accessory 5474
chromosomes, morphology 4632, 4645, 7363
chromosomes, number 4632
development and growth 4646
fertilization, sexual 2288
genetics, *Adelges* 1526
geographical races 673, 1486, 2289, 4645, 4647, 5474, 6325, 7361, 8258
germination 3140
growth period 8258
habit 9190
heritability 673
heterosis 4646
history and evolution 2271, 10055
hybridization, interspecific 673, 2271, 2287, 3948, 7362, 7654, 10055
inbreeding 4646, 7361, 8257
light, effect of 3140
pollen 2288
pollination 3948
respiration 9190
rooting capacity 6325
seed 4647
taxonomy 2271
varieties, classification 1525
Picea* × *Tsuga
history and evolution 2271, 10055
hybridization, intergeneric 2271, 10055
taxonomy 2271
Pickling quality (*see* Quality, for pickling and salting)
Pigeon pea (*see Cajanus*)
Pigmentation (*see* Colour)

Pimento (*see Capsicum*)
Pine (*see Pinus*)
Pineapple (*see Ananas*)
Pinus
altitude 3136
aneuploidy 10061
β rays 1522
breeding
Hungary 1496
Netherlands 6321
New Zealand 6306
South Africa 6308
USA 5466–5467, 7352
USSR 1514
White Russian SSR 1494, 3936, 10060
chemicals, as plant constituents
chlorophyll 692
esterase 4637
nucleic acids 673, 3137
oil, essential 1524
protein 3137
resin 1524, 7352
terpenoids 4639
wax 3138

Pinus *contd.*
chemicals, general effects
ozone 7359
sulphur dioxide 7359
chromosomes, morphology 3945, 4632, 4638, 6322
chromosomes, number 4632
colour 692
cone 5469
cone, colour 5468, 6323
cone, size 3135, 6323
Cronartium 691, 3947, 10057, 10062
density of stand 694
development and growth 1515, 1521
Dothistroma 2286
ecotypes 5468, 5471
embryo 1518
experimental designs 695
flowering 690
flowering, technique 3946
fungi 4634
γ rays 1497, 3136
genetics
colour 692
esterase 4637
quality, of timber 7353
genotype × environmental interaction 3135, 10154
geographical races 691, 693–694, 696, 1517, 2284, 3138, 4633, 4639–4640, 4644, 5469–5470, 5472, 6306, 8245
germination 3136
grafting 3946
habit 1520
height 8256
heritability 1515, 7353, 8256
history and evolution 7354
Hoplolaimus 1523
hybridization 1517, 8255
hybridization, interspecific 1518, 7354–7355
inbreeding 690
insects 1524
leaf 695, 4640, 5470
leaf, anatomy 7357
Lophodermium 697, 3138, 4641, 7360
matrocliny 3135
meiosis 1519
mutation, induced 1497, 10154
pathology 673
Phytophthora 4642
Pissodes 4643–4644, 5466, 5473
pollen 6324
pollination 1479, 7356, 8255
pollination, technique 6324, 8254
pollution, atmospheric 7359
population genetics 1516
quality, of timber 693
quality, of timber, technique 1522
Scirrhia, physiological races 3139
Scleroderris 2285
seed 3137
seed production 6323, 10060
seed, weight 3135
selection, artificial 10060
sterility and fertility 1479, 1485, 1
taxonomy 7355, 7358
variation 695, 1520, 10060
variety trials, Tanzania 3944
wind 696
X rays 1497, 3137
Piper
inflorescence 6170
Phytophthora, physiological races
quality, of edible product 5325
sex 6170
Pissodes, Pinus 4643–4644, 5466, 5
Pistachio (*see Pistacia*)
Pistacia
flowering 1474
plant collections 8242
plant introduction 5451
pollination 1474
varieties, Bulgaria 5451
Pistil (*see* Gynecium)
Pisum
acclimatization 10166
Agrobacterium, physiological rac
aneuploidy 7234, 9937
Aphanomyces 2391
physiological races 841, 751
apomixis 9307
Ascochyta 1636, 7234, 7238

Pisum contd.
β rays 5670
breeding
Italy 2382
New Zealand 4789
Sweden 4133, 8348
USSR 4740
White Russian SSR 4071
Bruchus 7513
cell division 886, 3282, 7505, 8352, 8402
chemicals, as plant constituents
acetaldehyde 7507
acids 6476
aminopeptidase 837
carboxylase 10164
chlorophyll 5584
gibberellins 9308
homoserine 7510, 9263
lysine 8351
nitrogen 6479, 7508
peroxidase 7506, 9937
pisatin 4083
protein 3247, 4741, 4743, 4813, 5586, 6478, 7504, 8351, 8354–8355, 8357, 9301, 9306
sugar 3247

chemicals, cytological effects
adenosine triphosphate 4099
cysteine 4099
2,4-D 3282
growth regulators 7505
miscellaneous 8350
plant extracts 8352
chemicals, general effects
aluminium 6472
gibberellins 2455
herbicides 7374, 7494, 7509, 8356
chemicals, mutagenic effects
colchicine 10163
diethyl sulphate 3245, 8349
dimethyl sulphate 6341, 9304, 10163
ethyl methanesulphonate 3245, 7501–7502, 8349, 8355
ethyleneimine 3245, 7503, 10163
gibberellins 7639
miscellaneous 4653, 5585, 8350
N-nitroso-*N*-ethylurea 4809, 7502, 9304, 10163
N-nitroso-*N*-methylurea 9304–9305
chloroplasts, number 7499
chloroplasts, size 7499
chromosomes, aberrations 886, 888, 1675, 2385, 4099, 4773, 5670, 8352
chromosomes, morphology 1630
climate 3244
cold resistance 1635, 4741, 4745, 9310
combining ability 10171
cytomixis 9302
desynapsis 7234, 8353
development and growth 2386, 4081, 8353
diallel analysis 10156
endomitosis 7505
environment 4080
Erysiphe 8357
experimental designs 2387
fasciation 5583, 7495, 7500
flower, colour 4741
fruit, size 7495
Fusarium 1628, 4789, 7494, 9937, 10171
physiological races 5587, 7234, 7512
γ rays 886, 888, 1728, 2385, 3245, 4078, 5585, 5670, 7498, 7503, 9307, 10155, 10163
genetics 8380–8381, 8385, 8388
aminopeptidase 837
Aphanomyces 2391
fasciation 5583
Peronospora 7234
peroxidase 7506
seed, number 4079
genotype × environmental interaction 7503, 9306
germination 4744
grafting 10163
growth period 840, 1632, 1635, 2382, 2386

9308, 9937, 10167

Pisum contd.
habit 6474–6475, 7506
harvesting, mechanical 10071
heat and drought resistance 840
height 2455, 4741, 7500, 7506
heritability 838, 6470, 10171
heterosis 2383, 4076, 10158
hollow heart 10170
hybridization 4741, 9303, 10157
hybridization, interspecific 7495, 9301–9302
hybridization, wide 6471
immunology 2383
leaf 2388, 5585, 7923
leaf, colour 4741
leaf, shape 2384
leaf, size 2384
light, effect of 9209
linkage 7234
magnetism, effect of 886, 888
meiosis 4742, 4773
mitochondria 837
multiple genes 9937
mutation 1629, 2383–2384, 2388, 7499, 8351, 10162, 10164
mutation, back 10162
mutation, induced 1728, 2382, 3244–3245, 4077–4078, 4653, 4742, 4809, 5584–5585, 5670, 6341, 7500–7504, 7639, 8349–8350, 8355, 8431, 9304–9305, 10128, 10160–10161, 10163
Mycosphaerella 1636
physiological races 9311
Nectria 4083
physiological races 3249
neutrons 1675, 3245, 7504, 10155
pathology 8520
Peronospora 842, 7234, 7238, 7494
photoperiodism 7923, 10169
photosynthesis 2386, 2388, 4078, 5584, 7641, 9937, 10164
plant collections 1625, 1635
pleiotropy 4078, 7503
pollination 10165
polyploidy 3282, 4743
Pseudomonas 4745, 7510
Pythium 1628, 10171
quality, for canning 1633, 6477, 10071
quality, for cooking 1627, 4072
quality, for freezing 9041
quality, for canning 9309
quality, for nutrition 6478
quality, for processing 1634
quality, technique 839
radiation 4099
recombination 4079, 5583, 7498, 9303, 10155
Rhizobium 7508
physiological races 386, 806
root 840, 1631, 10168
Sclerotinia 4746
seed 4743
seed, colour 4741
seed, number 4079
seed, shape 10170
seed, size 6477, 7495

seed, texture 9304
selection, artificial 6473
selection, natural 4070
sowing and planting date 2390, 3248, 6479–6480, 7513
stem 7234
sterility and fertility 2385
sterility, male, cytoplasmic 10128
taxonomy 6963
temperature, effect of 9209
translocation 4773
varieties
Belgium 2183
Netherlands 7635
Sweden 836
USA 1628
USSR 3200
variety trials 5679
Bulgaria 3242, 4075, 10152
Denmark 1627
India 3241
Italy 6429, 7497, 10153
Netherlands 1634, 4072–4073
Rumania 3243, 4074

Pisum contd.
variety trials *contd.*
Sweden 8348
Thailand 7573
UK 714
USA 7496
USSR 1626, 8489
viruses 843, 4789, 10172
physiological races 2352
X rays 3244, 7501, 10160
yield components 838, 2387, 2389, 4070, 4081, 6470, 6473–6475, 6479, 7923, 9937
***Pisum* × *Lathyrus*, hybridization, intergeneric 9307**
***Pisum* × *Vicia*, broad bean**
hybridization, intergeneric 9307, 10159
meiosis 10159
Plant collections 896, 6533
Aegilops 7681
Arachis 2157
Avena 192–193, 4913
Cajanus 6643
Carica 9999
cereals 78, 5681, 8526
Cicer 7516
Citrus 3038
Cornus 10017
crop plants 47, 54, 56, 58–62, 908, 913, 916, 1704, 1706, 2483, 3352, 4141, 4162–4164, 4806, 5657, 5660–5661, 6645–6646, 7619, 8481
crops plants 4797
Dioscorea 5264
Elaeis 3840
essential oil plants 9017
Euchlaena 4992
Fagopyrum 1168
forest trees 1490
fruit crops 2184
Glycine 7478
Gossypium 55, 7047
grasses 348–350, 7901
Helianthus, sunflower 556, 1361, 2979
Hordeum 8422, 8748
Ipomoea 6643
leguminous forage crops 348–350, 5959
Linum 8010
Lupinus 1216
Manihot 4140
Medicago 6967, 6970, 8839, 8850
nuts 2184
Oryza 1922, 5053–5054
Panicum 1907, 9646
Phaseolus 55
Pistacia 8242
Pisum 1625, 1635
Prunus, apricot 9968
pulses 5544, 5959
Salix 9040, 10059
Sesamum 551
Setaria 6892
Solanum, potato 6998, 7961
Thea 2120
Theobroma 4500
Trifolium, red clover 7943
Triticum 95, 916, 1754, 2517, 7681
Vaccinium 4604
vegetable crops 711–712, 8260
Vicia, vetch 1208
Vigna 55, 2372, 10140
Vitis 3076
Zea, maize 1831, 6798–6799, 9543
Plant introduction
Allium, onion 8426
Cajanus 6485
Calligonum 9685
Carthamus 2141
crop plants 49–50, 52, 3347, 4166, 4798, 6647
Digitaria 5939
Glycine 6449
Gossypium 6034
grasses 382, 6932, 9684–9685
Helianthus, sunflower 3318, 3835
Hemarthria 1973
Lavandula 6168
leguminous forage crops 381–382, 6932, 9684–9685
Leucaena 5943
Medicago 8837
Nicotiana 2946–2947
Opuntia 9166

Plant introduction *contd.*
Phaseolus 1590, 5559
Pistacia 5451
Rhizobium 382
Saccharum 7105
Setaria 7863
Stylosanthes 5941, 8871
Triticum 5700, 9400, 9404
Zea, maize 9548
Plantain (*see Musa*)
Plasmagenes (*see* Cytoplasmic inheritance)
Plasmodiophora
Brassica, physiological races 3152, 3966, 6360–6361, 7394
Brassica, Brussels sprouts 7395
Brassica, cabbage 6368, 7395, 8279
physiological races 3967
Brassica, cauliflower 7395
Brassica, kale × *Raphanus* 9224
Brassica, mustard 7395
Brassica, rape 9224
physiological races 1358
Brassica, sprouting broccoli 7395
Brassica, swede, physiological races 2834, 6610
Plasmopara
Helianthus, Jerusalem artichoke × *Helianthus,* sunflower 9009
Helianthus, sunflower 557, 1362, 2140, 3838, 4515, 8106, 9009
Vitis 2264, 3912, 3932, 6280, 7661, 8227, 9186
Plastic, cultivation under (*see* Glass and plastic, cultivation under)
Plathypena, Glycine 835
Platyedra, Gossypium 9828
Pleiotropy 8395
Cajanus 8360, 8363
Cucumis, cucumber 6388
Glycine 9292
Hordeum 7838, 8743
Lycopersicon 778, 5534
Nicotiana 5267, 7133
Pisum 4078, 7503
Raphanus 10076
Sesamum 3834
Triticum 6719
Pleospora
Beta, sugar beet 9887
grasses 9689
Plum (*see Prunus,* plum)
Poa
apomixis 2761, 4404, 6570, 8812
breeding
German Federal Republic 5130
USA 4404
chemicals, as nutrients, nitrogen 8808–8809, 9693
chemicals, as plant constituents
chlorophyll 8808
nitrogen 8808–8809
sugar 363
chromosomes, morphology 2762
chromosomes, number 362, 892, 2430, 4810, 7908
cold resistance 4121
ecotypes 362
Erysiphe 1956
genetics, apomixis 8812
hairs 2763
Helminthosporium 363, 9689
history and evolution 7908
hybridization, interspecific 4404, 6570
mowing and cutting 9693
mutation, induced 4121
perennial habit 6944
persistence 9692
polyploidy 8812
population genetics 1955
Puccinia 9690
spikelets 2763
taxonomy 1954–1955, 2763, 6944–6945, 7905, 7908
varieties
Netherlands 7632
USA 5131
varieties, classification, technique 9686
X rays 2761
yield components 9693
Podosphaera
Malus 3869, 5359, 6181, 6203, 8150–8151, 9086
Prunus, peach 9111
Podosphaera *contd.*
Prunus, plum 9111
Pollen 895, 895, 4110, 6273, 8411
Abies 5475
Beta 500
Betula 5460
Bromus 9699
Cannabis 8934, 9837
Capsicum 1384, 8118
crop plants 1725, 2489, 4812
Cucumis, melon 3982
Cupressus 10065
Cydonia 9056
Digitaria 2777
Euchlaena × *Tripsacum* 6815
forest trees 6311
Fragaria 2182
Glycine 4737
Haydonia 805
Helianthus, sunflower 6159
Hordeum 5861, 6877, 7844
Larix 5477
Lathyrus 6992
Linum 478
Lolium 8820
Malus 1396, 3005, 8140
Malvaceae 6530
Medicago 2804, 5965, 5969
Nephelium, longan 653
Nicotiana 2927, 4493
Ornithopus 2830
Oryza 3663, 6924, 9671
Phaseolus 805
Picea 2288
Pinus 6324
Populus 5457
Prunus, cherry 3885, 9979
Prunus, plum 7265
Pseudotsuga 1531, 5477
Pyrus 1396, 2200, 8156, 9036, 9056
Raphanus 3960
Secale 2506, 3547, 3552, 9535
Solanum, potato 2845, 2848, 3736, 7014
Trifolium 7942, 9738
Trifolium, red clover 400
Tripsacum × *Zea,* maize 6815
Triticum 1004, 1774, 2506, 3470, 4237, 4875, 8575, 8587, 9423
Vigna 805
Vitis 6286, 8217
Voandzeia 805
Zea, maize 4959, 5827, 6806, 7817, 8690, 8710, 9569
Pollen, size
Allium, minor species 8270
Beta, sugar beet 9873
Lolium 2770
Oryza 6926
Vitis 10040
Zea, maize 8685
Pollen, technique
Allium, leek 8269
Elaeis 6575
Helianthus, sunflower 2139
Pollination
Aegilops × *Triticum* 4218
Allium, onion 4663, 7386
Beta, sugar beet 5257, 5260
Brassica, Brussels sprouts 735, 3158, 3971
Brassica, cabbage 735
Brassica, mustard 6149
Bromus 4185
Capsicum 1383, 3848, 5330, 6172, 9022
Citrus, orange 9141
Cola 8084
Corchorus 8938
Corylus 7332
Crambe 9922
crop plants 68–69
Cucumis, cucumber 3988
Digitalis 4534
Fagopyrum 2756, 5934
Fragaria 8197
fruit crops 2186, 5345
Glycine 1608
Gossypium 1281, 2065, 6577, 7994, 8001
Hordeum 3624, 6666, 8749
Hypericum 5626
Jasminum 5626
Lathyrus 5175
Lupinus 1222
Pollination *contd.*
Lycopersicon 6405, 6407–6408, 7642, 9245
Malus 601, 603–604, 2191–2192
Medicago 2803, 3703, 4412, 4415, 5155, 5157, 9728
Melilotus 3713
Morus 6241
Olea 1372
Onobrychis 2001, 8865
Oryza 8788
Papaver 9353
Phaseolus 4036, 9271
Picea 3948
Pinus 1479, 7356, 8255
Pistacia 1474
Pisum 10165
Populus 6317
Prunus, cherry 3025, 7272, 8173
Prunus, plum 1412, 2209, 4575, 8168, 9037
Psophocarpus 6486
Pyrus 3872, 3875, 4568, 8157, 9091
Ribes, black currant 5405, 10006
Ribes, gooseberry 2984
Rubus, raspberry 3050–3051
Secale 4185, 7673, 7785, 7787, 8436
Secale × *Triticum* 2541, 4853, 6714, 7673, 7710, 7713, 8436
Solanum, potato 6009
Theobroma 542, 1349, 2967, 3298
Triticum 144, 148, 151, 989, 2577, 3432, 3442, 4185, 4867, 5084, 6666, 7673, 8436, 9440, 9454
Vicia, broad bean 1589, 3204–3205
Vigna 7476
Vitis 664
Zea, maize 1079, 1859, 4317, 4951, 7642, 7808, 8709, 9589
Zea, popcorn 3609
Pollination, technique
Brassica 9219
Brassica, cabbage 8277
Bromus 1961
Cocos 4596, 7291
forest trees 676
grasses 1950
Helianthus, sunflower 4514
Hibiscus 8941
Lolium 1950
Lycopersicon 1573–1574, 6414, 8[illegible], 10113–10115
Panicum 9644
Petunia 4777
Phoenix 8189
Pinus 6324, 8254
Sequoia 1534
Theobroma 6143
Trifolium, red clover 2813
Triticum 8588, 9463, 9470
Vaccinium 2239
Vigna 7475
Zea, maize 1057
Pollution, atmospheric
Lactuca 7378
Lycopersicon 791, 2342, 6421,
Nicotiana 531, 2115, 2935–2937, 5276, 6126, 8975
Pinus 7359
Populus 683
Raphanus 7378
Solanum, potato 2860
Spinacia 5499
Polyembryony and twinning 1678
Acer 2280
Asparagus 7233, 9936
Brassica, rape 8091
Citrus 4590, 5383
Citrus, mandarin 5386
Glycine 9291
Taraxacum 5542
Theobroma 2123, 6141
Triticum 5747, 9453
Zea, maize 2650
Polyembryony and twinning, tech
Ammi 1389
Polygenes (*see* Multiple genes)

Polygonum
chemicals, as plant constituents
carbohydrates 1391
tannin 1391
Polyhaploidy 3438
Gossypium 7996
Medicago 9726
Nicotiana 8061
Solanum, potato 7012, 7975, 8439
Polymorphism 2408, 2458
Avena 1814, 2614
Bromus 1962
grasses 2757
Lotus 2002, 2409
Medicago 7940
Trifolium, red clover 8858
Trifolium, white clover 2409
Polyphagotarsonemus, Capsicum 8122
Polyploidy 3272, 5720, 9325
Acer 4109
Achras 4612
Aegilops 4912
Aegilops × *Triticum* 7719
Agropyron 1188, 8831
Agropyron × *Triticum* 6709
Agrostis 6941
Allium, leek 3963
Allium, minor species 1542, 6356, 9217
Allium, onion 38
Alocasia 6108
Apluda 8832
Arachis 7184
Asparagus 7233
Atropa 9931
Avena 199, 1048, 2613, 2616, 3532, 4916, 5794–5795, 7779
Basella 5543
Beta 6079, 6082–6085, 6090, 6097, 7110

Beta, mangel 3304, 4160, 5994, 6087, 9846
Beta, mangel × *Beta*, sugar beet 4471, 4474, 6098

Beta, sugar beet 1321–1322, 3781, 3785–3791, 5253, 5256, 6079, 6082, 6085–6089, 6091–6092, 6096, 6099–6100, 6104, 7109, 7112, 7120, 7122, 8043–8045, 8944, 8948–8951, 8953–8956, 8958, 9848, 9858, 9861, 9863–9864, 9867–9869, 9885
Brassica 2006, 3151, 6572
Brassica, cabbage 8278
Brassica, cabbage × *Brassica*, rape 2128
Brassica, kale 6372
Brassica, kale × *Brassica*, rape 2128
Brassica, kohl rabi 7958
Brassica, mustard 2128
Brassica, oil crops 5303, 9000
Brassica, rape 7161
Briza 380, 6960
Bromus 7913, 9699
Cajanus 1640
Cannabis 9833
Capsicum 5326
Caragana 2278, 9189
Cardamine 3199
Carum 5598
cereals 948
Chrysanthemum 7212
Cichorium, chicory 5502
Citrullus 4682, 6385, 8290–8291
Citrus 630, 5384, 9139
Coccinia 7421
Coffea 2962, 6134
Coriandrum 8111
Crepis 8409
crop plants 66, 2006, 4169, 5625, 6498, 9376
Cucumis, melon 2319, 9232
cucurbits 744, 2317
Dactylis 6948
Datura 3289
Daucus 5994
Digitaria 1970, 5939
Euchlaena × *Zea*, maize 1848
Fagopyrum 1168, 1170, 3349, 5933, 7898–7900, 9680
Festuca 1185–1186, 2774, 3685, 5950, 6941
Festuca × *Lolium* 1185, 5949
Foeniculum 8111
forest trees 3119

Polyploidy *contd.*
Fragaria 2243, 7302
Gossypium 1270, 1274, 6038, 7063–7064, 7081, 8910
grasses 6940
Helianthus, sunflower 5315, 8098
Hordeum 2699–2700, 5860, 9390
Humulus 5296
Juniperus 707
Lathyrus 5175
leguminous forage crops 2787
Lilium 9018
Lolium 1178, 1180, 4121, 5135, 6933, 6953–6954, 7906

Lolium 7918, 8438, 9701
Luffa 2327
Lycopersicon 4000, 5529, 8306
Malus 1396, 6181, 8440
Manihot 3801
Medicago 1986, 2798, 5153, 9726
Mentha 1642, 2399, 3253, 6142, 9018
Momordica 2317
Morus 2228, 4592, 5390–5392, 6239, 7286
Musa 1454
Nicotiana 1338, 2926, 3816, 4489, 4492, 5268, 5275, 6112, 8061
Nigella 8111
Onobrychis 5986
Ornithopus 2830–2831
Oryza 326, 3661, 9672
Panicum 283, 5019
Pennisetum 286
Phaseolus 3212, 7461
Pisum 3282, 4743
Poa 8812
Primula 4108, 6526
Prunus, cherry 9119, 9976
Prunus, plum 7264, 9031, 9101, 9106
Putranjiva 4776
Pyrus 1396, 9963
Raphanus 3145, 8264
Ribes 9152
Robinia 7350
Rumex 2452
Salvia 1645, 2403, 9018
Secale 948, 2624, 3533, 3546, 4274–4275, 4922–4924, 5800, 5802, 6793, 6795, 7783, 8649, 8655, 9390, 9533–9534
Secale × *Triticum* 1786, 2539, 2548, 4216, 6704, 6709–6710, 7706, 9445–9446
Solanum 26, 10020–10021
Solanum, potato 1237, 2847–2848, 2854, 4445, 5203, 6008, 6573, 7010, 7013, 8439, 9772–9773
Themeda 1952, 5958
Tradescantia 2452
Trichosanthes 767
Trifolium 6975
Trifolium, Alsike clover 1199, 5973
Trifolium, minor species 9429
Trifolium, red clover 400, 1199–1200, 1203, 1992–1993, 2812, 4123, 4421, 5166, 5973–5974, 6933, 7906, 7946, 8854–8856, 9739
Trifolium, white clover 1204
Tripsacum 1883
Tripsacum × *Zea*, maize 8682
Triticum 996–997, 1024, 3344, 3470, 4235, 4238, 4245, 4847, 4862, 4908, 5738, 5768, 7723, 8601, 8908, 9444
Vaccinium 4605, 6257, 6259
Valeriana 3851
Vicia, broad bean 4027
Vicia, vetch 4424
Vitis 3101, 5430, 6282, 7321, 8217, 10035
Zea, maize 1838, 1856, 4317, 6819, 7804, 7810, 8702, 8708
Polyploidy, technique
Beta 6081, 8952
Beta, sugar beet 5254
Coffea 7153
Festuca 8819
fruit crops 9944
Lactuca 7405
Lolium 8819
Medicago 9727
Trifolium, red clover 7945
Polysomaty (*see* Mixoploidy)
Polysomics (*see* Aneuploidy)

Polyspora, Linum 2076
Polystigma, Prunus, plum 7268, 9112
Polytrias* × *Oryza, hybridization, intergeneric 322
Pome fruits
chemicals, as plant constituents, phenols 8136
dormancy 6194
germination 6194
history and evolution 8136
Pomegranate (*see Punica*)
Pomelo (*see Citrus*, pomelo)
Poncirus
Phytophthora 8185
Tylenchulus 2224
Poncirus* × *Citrus, hybridization, intergeneric 3040, 3893, 5382
***Poncirus* × *Citrus*, lemon**, hybridization, intergeneric 5384
***Poncirus* × *Citrus* orange**, hybridization, intergeneric 8185
***Poncirus* × *Citrus*, pomelo**, hybridization, intergeneric 2226
Popcorn (*see Zea*, popcorn)
Poplar (*see Populus*)
Poppy (*see Papaver*)
Population genetics 1, 4, 43, 878–879, 1652–1655, 1657, 1662–1663, 1665, 1667, 1679, 1683, 2415, 2418–2422, 2424, 3256–3258, 3267–3269, 3337–3338, 4763, 5604, 5607–5611, 6496–6497, 6500, 6503–6504, 6508, 6517, 6519, 6533, 6536, 7538, 8376, 8395, 9324, 9326–9327
Aegilops 6780
Avena 196, 1814
Bromus 1962
Corchorus 8938
crop plants 6498, 7660
forest trees 1478
grasses 2757
Hordeum 266
Oryza 2749, 3336
Pinus 1516
Poa 1955
Populus 2270
Salix 2270
Populus
Aplanobacter 684, 3123
bark, colour 3940
breeding
Hungary 1496
USA 4635
breeding, technique 7341
chemicals, as plant constituents, aminoacids 1504
chemicals, general effects, sodium chloride 5458
cold resistance 1501
embryology 7342
fertilization, sexual 6317
flooding 1501
flowering 3940
genetics 5456
growth period 6315
habit 7343
Hypoxylon 6318
growth period 6315
heritability 1503
hybridization, interspecific 1489, 3122, 3940, 5455, 6314–6316, 7342, 7344
hybridization, technique 5457
Hypoxylon 6318
leaf, anatomy 3122
Marssonina 8248
Melampsora 5459
photosynthesis 7341, 7344
pollen 5457
pollination 6317
pollution, atmospheric 683
population genetics 2270
quality, of timber 1489, 1505
respiration 7341, 7344
sex 6315
sterility and fertility 5457
sterility, female 9187
taxonomy 6314
tissue culture 681
variation 682
varieties, Italy 1502
variety trials
USA 1488, 5455
USSR 1501
water balance 682, 3122

Poria, Thea 8073
Potato (*see Solanum*, potato)
Pratylenchus
Mentha 5597
Saccharum 2892
Thea 8073
Precocity of bearing
forest trees 2999
fruit crops 2999
Malus 6205
Pyrus 2199
Prepotency, *Cocos* 8188
Prickles (*see* Spines)
Primula
inbreeding 4108
polyploidy 4108, 6526
sterility and fertility 4108, 6526
Pristiphora, Larix 7364

Processing quality (*see* Quality, for processing)
Protomyces, Coriandrum 857
Protoplast fusion 866, 3262, 3288, 7563
Avena 5666
Brassica 4667
crop plants 1725, 2405, 2456
Nicotiana 525, 2925, 2928, 3271, 5666
Protoplasts 9933
Nicotiana 4758, 7140
Petunia 4758
Zea, maize 4758
Provenances (*see* Geographical races)
Pruning
Fragaria 5413
Malus 599, 3866, 8145
Pyrus 8158
Vitis 1462, 1466, 3929
Prunus (*see* Stone fruits)

***Prunus*, almond**
Agrobacterium 8129
breeding, France 3117
chemicals, as plant constituents
miscellaneous 671
oil, fatty 1473
protein 1473
chemicals, general effects, iron 9132
cold, effect of 6303–6304
cold resistance 3935, 7243
development and growth 7243
flowering 6304
grafting 9132
hybridization, interspecific 9096, 9130
Meloidogyne 2268
nectar 6302
nematodes 8129
quality, for nutrition 671, 671
quality, of edible product 4629
Sclerotinia 10053
sterility and fertility 3118, 9096
sterility, self 3118, 9130
varieties
Bulgaria 2267
France 10051
USA 4552, 7334, 10050
varieties, classification 8241
variety trials
Bulgaria 1472
France 10049
***Prunus*, almond × *Prunus*, peach**
chemicals, as plant constituents, iron 9131
chemicals, general effects, iron 9132
cold resistance 8182
dormancy 8182
flowering 8182
hybridization, interspecific 2268, 7334, 8182, 9132, 10052
Meloidogyne 2268
rootstock 7334, 10052
temperature, effect of 8182
***Prunus*, apricot**
andrecium, number of parts 7260
Bacillus 9967
breeding
Tunisia 8127
USSR 9968
chemicals, as plant constituents
ascorbic acid 614
nucleic acids 2204

***Prunus*, apricot** *contd.*
chemicals, as plant constituents *contd.*
peroxidase 8162
chemicals, general effects, indole-3-butyric acid 9099
Clasterosporium 5367
cold, effect of 9098
cold resistance 3880, 7243, 9098, 9970
development and growth 7243
dormancy 4574, 9098
flower 3017
flowering 3880
grafting 9098
gynecium, size 7260
history and evolution 615
hybridization, interspecific 9095–9096
plant collections 9968
quality, for nutrition 614
quality, of edible product 2205, 9965
rooting capacity 9099
Sclerotinia 9100, 9940
stem 3017
sterility and fertility 615, 9096
sterility, self 7260
taxonomy 8162
temperature, effect of 4574
varieties
Bulgaria 6214
Lithuanian SSR 9969
Spain 2203
Tunisia 6191
USA 4540
Yugoslavia 7261
varieties, classification 616
variety trials
Hungary 8161
Rumania 6213
Xanthomonas 3018
***Prunus*, apricot × *Prunus*, plum**

aneuploidy 5372
cold resistance 8166
growth period 8166
hybridization, interspecific 5372, 6215, 8166
meiosis 6215
sterility and fertility 8166
***Prunus*, cherry**
andrecium, number of parts 7260
Bacillus 9967
breeding
Sweden 9032
USSR 620, 4578–4579, 6221, 9115
chemicals, as plant constituents
aminoacids 9123
flavonoids 2214
miscellaneous 1415
sugar 9123
chemicals, general effects
calcium 3027
herbicides 8167
chromosomes, number 2212
Coccomyces 9126
cold resistance 1416–1417, 3023, 8177, 9123, 9125, 9976, 9982–9983
development and growth 3886
dormancy 3854
embryo culture, technique 9121
flower 3017
flower, number 9125
flowering 9122
fruit, colour 9120
fruit cracking 622, 3028–3029, 5376, 7275
γ rays 9977, 9979
geographical races 4582
germination 4146, 9124, 9980
grafting 6226
growth period 3023, 3025, 5376, 9120, 9976
gynecium, size 7260
habit 4582, 8175
heritability 8441
history and evolution 3885, 9966
hybridization, interspecific 4578–4579, 6225–6226, 7270–7271, 9119, 9976
inbreeding 8441
inflorescence 7274
meiosis 3885
mutation, induced 5374, 9977

mycoplasmas 8178

***Prunus*, cherry** *contd.*
nectar 3026
pollen 3885, 9979
pollination 3025, 7272, 8173
polyploidy 9119, 9976
Pseudomonas 7231, 9934
quality, for conserving 9975
quality, for nutrition 6222
quality, of edible product 3023, 905
9965
radiation 5374
root 4582
rooting capacity 6226
rootstock 2181, 2213, 4146, 4578–4
6226, 7269, 8167
Sclerotinia 3030
seed, shape 8174
seed, size 8174
shedding 8172
stem 3017
sterility and fertility 2213, 7269,
8173, 8176, 9934, 9981
sterility, female 5375
sterility, self 7260
stomata 7275
temperature, effect of 4146
variation 9124, 9980
varieties
Bulgaria 6224
Georgian SSR 9975
Poland 4581
Rumania 3884
Ukrainian SSR 3023, 3023, 9
USA 4543
USSR 9116
Yugoslavia 3883
varieties, classification 7274, 81
variety trials
Czechoslovakia 621
Rumania 4580, 6223
Yugoslavia 3024
viruses 623
water balance 7275
X rays 9979
xenia 3025
yield components 8175
***Prunus*, nectarine**
breeding, USA 1419, 6236
chemicals, as plant constituen
acid 614
embryology 3888
Pseudomonas 628
quality, for nutrition 614
seed, size 3888
varieties
Italy 2220–2221, 4589
USA 4545
***Prunus*, peach**
andrecium, number of parts
Bacillus 9967
chemicals, as plant constitue
ascorbic acid 614, 626, 5
iron 9131
phosphorus 7279
starch 7281
sugar 5381
chemicals, general effects
3-chloro-phenoxy-α-prop
amide 3035
2-chloroethanephosphon
chloroflurenol methyl es
2,6-dichlorobenzonitrile
flurenol butyl ester 4
gibberellins 7278
growth regulators 913
iron 9132
succinic acid–2,2–dime
624–625
chromosomes, morpholog
Clasterosporium 4588
climate 3036
cold, effect of 2218, 30
cold resistance 627, 30
6232, 7243, 7281
corolla 2217
development and growth
embryology 3888
flower 3017, 5380
flower, colour 9985
flowering 627, 2218, 4
fruit 2217, 9985
fruit, colour 2217

***Prunus*, peach** *contd.*
genetics
corolla 2217
flower, colour 9985
fruit 2217, 9985
fruit, colour 2217
leaf 8180
Meloidogyne 6234
sterility, male 8181
grafting 9132
growth period 624–625, 9133
gynecium, size 7260
heritability 3033
hybridization, interspecific 8180, 9096

leaf 8180
Meloidogyne 3891, 6234
parthenocarpy 7278
Podosphaera 9111
Pseudomonas 628, 9137
quality, for canning 626
quality, for freezing 3889, 9136
quality, for nutrition 614
quality, of edible product 3033, 6230, 7280, 8452, 9054, 9965
rootstock 8167
seed, size 3888
shedding 3035, 5380, 9134–9135
stem 3017
sterility and fertility 9096
sterility, male 8181
sterility, self 7260, 9130
Stigmina 3890
Taphrina 6228, 6233
varieties
Bulgaria 1418
German Democratic Republic 3032
Italy 6231
Japan 6229
Sicily 7277
South Africa 5378, 9984
USA 3031, 4544, 5379, 8179, 9984
USSR 2216
Yugoslavia 9128–9129
variety trials
Bulgaria 2215
Italy 5377
Rumania 4583, 6228
USA 6227
Yugoslavia 7276, 9127
viruses 3892, 6235
water balance 4585

***Prunus*, peach × *Prunus*, almond,** hybridization, interspecific 2268, 7334, 8182, 9131–9132, 10052
***Prunus*, peach × *Prunus*, plum,** hybridization, interspecific 3887, 9095
***Prunus*, plum**
andrecium, number of parts 7260
Aspidiotus 8170
Bacillus 9967
Brachycaudus 9113
breeding
Kirgiz SSR 617
Sweden 9031
USSR 9102
chemicals, as plant constituents
acids 9973
ascorbic acid 614, 9974
calcium 8135
magnesium 8135
phenols 2208
polyphenol oxidase 2208
potassium 8135
sugar 9973
chemicals, general effects, herbicides 8167
cold resistance 1413, 1416, 9101, 9110
development and growth 9972
dormancy 9107
flower 3017
flowering 618, 5373, 6195
fruit, colour 1414, 6218–6219
fruit, shape 6219
fruit, size 2210
fruiting, biennial or irregular 3021, 9971
genetics
fruit, colour 6218–6219
fruit, shape 6219
Grapholitha 8171
growth period 618, 5373, 9110, 9971

***Prunus*, plum** *contd.*
gynecium 1413
gynecium, size 7260
heat and drought resistance 4576
history and evolution 9966
hybridization 2210
hybridization, interspecific 4576, 5373, 7264, 8165, 9031, 9101, 9106, 9971
meiosis 7265
Phytophthora 3879
Podosphaera 9111
pollen 7265
pollination 1412, 2209, 4575, 8168, 9037
polyploidy 7264, 9031, 9101, 9106
Polystigma 7268, 9112
quality, for canning 7267
quality, for conserving 9973
quality, for drying 6220, 7266
quality, for nutrition 614
quality, of edible product 2210, 9054, 9108, 9965
rootstock 619, 8167
stem 3017
Stereum 2211
sterility and fertility 1412, 2209, 9106
sterility, male 2208
sterility, self 7260, 8168
taxonomy 9109
varieties
Bulgaria 5370, 6217
Georgian SSR 1410
South Africa 1411, 8164
Spain 2207
USA 4541–4542, 5371
USSR 9105
Yugoslavia 8163, 9104
variety trials
Bulgaria 3019
Canada 7215
Denmark 3020
Poland 1408, 3881, 7262
Rumania 5368, 6216, 7263
Ukrainian SSR 9103
USA 5369
USSR 618, 1409, 2206
Verticillium 7268
viruses 1414, 3022, 3882, 4577, 9113–9114
Xanthomonas 1411
yield components 8169
***Prunus*, plum × *Prunus*, apricot,** hybridization, interspecific 5372, 6215, 8166
***Prunus*, plum × *Prunus*, peach,** hybridization, interspecific 3887, 9095
Pseudaletia*, *Triticum 9515
Pseudatomoscelis*, *Gossypium 474
Pseudo-black-chaff, *Triticum* 2590
Pseudomonas
Arachis 2494
physiological races 3847
Glycine 4067
Hordeum 1905, 5015
Lactuca 6376
Lycopersicon 1695, 7443, 9256
Manihot 4140
Morus 2230, 6240
Nicotiana 1336, 3271, 3818, 8070
Oryza 7891
Phaseolus 1598, 2364, 2366, 8336
physiological races 1599, 4040, 5563
Pisum 4745, 7510
Prunus, cherry 7231, 9934
Prunus, nectarine 628
Prunus, peach 628, 9137
Solanum, egg plant 4718, 5540, 7448
Solanum, potato 2030, 2464, 2494, 2861
physiological races 2029
stone fruits, physiological races 6212
Pseudomonas*, technique, *Lycopersicon 10121
Pseudoperonospora
Cucumis, cucumber 9237
Humulus 9899
Pseudopeziza
Ribes, black currant 3058, 7224, 9044
Ribes, gooseberry 6185, 7225
Vitis, physiological races 9185
Pseudotsuga
breeding, New Zealand 6307
chemicals, as plant constituents
miscellaneous 1532
terpenoids 701

Pseudotsuga *contd.*
chromosomes, morphology 4632
chromosomes, number 4632
cone, colour 2290
development and growth 5481–5482, 7365
fertilization, sexual 5477
genetics 5482
geographical races 701, 4633, 6307, 7365–7366
grafting 9191
height 5481
herbivores 1532
multiple genes 2290, 9191
pathology 2291
pollen 1531, 5477
seed, size 7366
variation 701
***Pseudotsuga* × *Larix*,** hybridization, intergeneric 2271, 10055
Psidium
aneuploidy 2231
breeding, Arab Republic of Egypt 4593
chromosomes, number 7287
Helopeltis 1423, 9996
meiosis 7287
variety trials, Sri Lanka 3898
Psila*, *Daucus 2302
Psophocarpus
growth period 6486
pollination 6486
yield components 6486
Psylla*, *Pyrus 4571
Puccinia
Agropyron × *Triticum* 987, 1812, 2547, 3430, 4411, 7711, 8436
Arachis 2991
physiological races 569
Arrhenatherum 8438
Avena 203–204, 942, 1821, 2618, 3391, 4268, 6788–6789, 6791, 9518, 9528
physiological races 205, 1822, 3532, 6790, 8421, 8642
Bromus, physiological races 5693
cereals 8535

chemicals, as plant constituents, *p*-diphenol oxidase 9506
colour 2986
Dactylis 6949, 7911
Festuca, physiological races 1967
genetics 205, 3515, 3532
colour 2986
grasses, physiological races 3677
Helianthus, sunflower 558, 2986, 7175
physiological races 5317–5318
Hordeum 279, 942, 1906, 2712, 3391, 4357, 4833, 5876, 7765, 8761, 9642
physiological races 1129, 1905, 5692–5693, 9641
hybridization 3677
light, effect of 5318
Lolium 8438, 8447, 9690
Mentha, physiological races 6491
mitotic recombination 7767
Pennisetum 1753
Poa 9690
Secale 942, 1056, 3391, 8658

Secale × *Triticum* 1811–1812, 2543, 2597, 3434, 7706, 7711, 8558, 8572
physiological races 122
Solanum, potato 7034
Sorghum 1753, 5031, 9665
temperature, effect of 5318
Triticum 179–180, 183, 186–187, 942, 970, 972, 1739, 1806, 1808–1810, 1812, 2594, 2596, 2598–2600, 2603, 3391, 3508, 3511–3512, 3514, 3517, 3519–3520, 4254–4255, 4262, 4265, 4828, 4833, 4839, 4841, 4898, 4901, 4906, 4909, 5636, 5649, 5695, 5778, 5780, 5782–5783, 6771, 6773–6774, 6778, 7678, 7691, 7763, 7765–7766, 7769–7770, 8539, 8559, 8624, 8628, 8630–8635, 9502, 9504–9508, 9511–9514
physiological races 178, 181–182, 184–185, 1042–1043, 1800, 1807

Puccinia
Triticum, physiological races 1813, 2592–2593, 2595, 2601–2602, 2604, 3388, 3515–3516, 3518, 3521, 4260–4261, 4263–4264, 4905, 4907–4908, 4910, 5692–5693, 5775, 5781, 5784, 5798, 6540, 6580, 6688, 6769, 6772, 6775–6777, 6779, 7704, 7762, 7764, 7767–7768, 8420, 8629, 9503, 9509–9510
Zea, maize 2670–2671, 6588
***Puccinia,* technique,** *Triticum* 5779

Pulses
breeding
India 2350
Moldavian SSR 5544
USSR 7621
chemicals, as nutrients, iron 802
chemicals, as plant constituents
nitrogenase 5549
phaseolin 5546
tryptophan, technique 8530
flowering 1587
heat and drought resistance 5547
history and evolution 9380–9381
pathology 2349
plant collections 5544, 5959
quality, for nutrition 2349
Rhizobium 2349, 5548–5549
seed production 7621
sowing, technique 3364
taxonomy 5546, 8318
varieties, USSR 3200
variety trials, UK 7491
Pumpkin (*see Cucurbita*)
Punica
quality, of edible product 2249
varieties, USSR 3068
variety trials, Yugoslavia 8202
Pure lines (*see* Inbreeding)
Putranjiva
endosperm 4776
polyploidy 4776
tissue culture 4776
Pyrenochaeta, Lycopersicon 8314, 9202
Pyrenophora
Avena, physiological races 6787
Bromus 8815
grasses 9689
Hordeum 942, 1124, 2712, 3391, 3629, 4357, 5017
physiological races 278, 6886
Pyrethrum (*see Chrysanthemum*)
Pyricularia
cereals 8796
Eleusine 290, 5651, 5651, 5651
Lolium 8487
mutation 8796
Oryza 312, 332, 1165–1166, 1690, 1737, 2753, 3671–3673, 4397, 5033, 5055, 5058, 5120–5121, 5907, 5931, 6922, 6929, 7661, 7891, 8796
physiological races 341, 4395–4396, 5033, 5056, 5907, 5930, 6621, 7588, 7892–7893, 8797
***Pyricularia,* technique,** *Oryza* 1945

8798
Pyrilla, Sorghum 5906
Pyrus (*see also Malus*)
Adoxophyes 5346
Alternaria 2201, 5364, 9092
altitude 3873
breeding
Canada 7214
Sweden 9030
Ukrainian SSR 7253
USSR 2199, 9088, 9962
chemicals, as nutrients, miscellaneous 7257
chemicals, as plant constituents
anthocyanins 9036
ascorbic acid 6196
calcium 8135, 8137
magnesium 8135
miscellaneous 1406, 3010, 7257
phenols 7255, 9036, 9092
phosphorus 8137
potassium 8135, 8137
chemicals, general effects
2-chloroethanephosphonic acid 7244, 9057

Pyrus contd.
chemicals, general effects *contd.*
gibberellins 3012
herbicides 3015
iodide, potassium 9057
potassium iodide 7244
cold resistance 6207, 9088
Cydia 5346
Dasyneura 6182
development and growth 3012, 3873
dormancy 9964
Dysaphis 6182
Erwinia 3016, 3871, 3877–3878, 7221
Erwinia, technique 8159
flowering 3873, 6195
fruit 3011
fruit, size 8157
fruit, texture 3010
fruiting, biennial or irregular 4569
genetics
height 3874
leaf, colour 7221
phenols 7255
germination 3011
growth period 3010, 3013, 4569, 5346, 6207
heat and drought resistance 4570, 7256
height 3874
history and evolution 5363, 9090
hybridization, intergeneric 9091
hybridization, interspecific 4571, 5362, 7255, 9036, 9090–9091
Hyponomeuta 5346
leaf, colour 7221
leaf fall 7244, 9057
lethals 7221
meiosis 1396
parthenocarpy 3872, 4568, 9056
pollen 1396, 2200, 8156, 9036, 9056
pollination 3872, 3875, 4568, 8157, 9091
polyploidy 1396, 9963
precocity of bearing 2199
pruning 8158
Psylla 4571
quality, for storage 3876, 7228
quality, of edible product 3014, 9054
respiration 2201
seed 3011
spur variants 3853
sterility and fertility 3872, 3875, 9963
sterility, self 4568
taxonomy 5363, 9036
temperature, effect of 3873
varieties
Italy 2197, 8155
Kazakh SSR 4555
Spain 2198
USA 3871
USSR 2196
Yugoslavia 9089
varieties, classification 9036
variety trials
Rumania 2195
Ukrainian SSR 7254
USSR 6208
Venturia, physiological races 611, 7258
viruses 612, 5365
water balance 4570
xenia 5360
Pyrus* × *Sorbus
fruit, number of parts 5361
hybridization, intergeneric 5361
Pythium
Arachis 7194
Glycine 3238
Nicotiana 534
Phaseolus 3219
Pisum 1628, 10171
Saccharum, physiological races 6077
Quality, for canning
Beta, beetroot 719
Cucumis, cucumber 10071
Daucus 7381
Fragaria 7232
Ipomoea 8449
Lycopersicon 2339, 3176
Phaseolus 2363, 6437, 9052
Pisum 1633, 6477, 10071
quality, for freezing 9309
Prunus, peach 626
Prunus, plum 7267
Solanum, potato 427, 6013–6014, 7626
Spinacia 6373

Quality, for conserving
Apium 9228
Prunus, cherry 9975
Prunus, plum 9973
Ribes, black currant 10007
Quality, for cooking
Lens 4747
Oryza 3666, 3668, 5069, 5112, 8[illegible] 9674
Phaseolus 5559, 5561–5562
Pisum 1627, 4072
Solanum, potato 425, 1231, 201[illegible] 5183, 7983, 8891
Quality, for cooking, technique, *So*[illegible] 88
Quality, for drying
Allium, onion 3148, 6353, 738[illegible]
Prunus, plum 6220, 7266
Vitis 3110
Quality, for freezing
Brassica, Brussels sprouts 231[illegible]
Brassica, cauliflower 5496
Cucurbita 6387
Daucus 7381
Fragaria 6267, 7237
Lycopersicon 4009
Phaseolus 2363, 6437, 9041,
Pisum 9041
quality, for canning 9309
Prunus, peach 3889, 9136
Vitis 3107
Quality, for hopping, *Humulus* [illegible] 9899
Quality, for malting and brewin
Hordeum 263, 273–274, 11[illegible] 1900–1901, 3610, 3627, 4[illegible] 5687, 5690, 5867, 5869, [illegible] 6881–6883, 6885, 7849, [illegible] 8755, 9631, 9633
Secale × *Triticum* 133
Zea, maize 9595
Quality, for malting and brew
Hordeum 5870
Quality, for milling and baki
Agropyron × *Triticum* 7
Oryza 8791
Secale 1827, 2509, 3381,
Secale × *Triticum* 133, 3472, 6707, 6715, 770[illegible] 9428, 9432
Triticum 155, 157, 159- [illegible] 1019–1020, 1022, 175[illegible] 2578–2583, 3309, 338[illegible] 3472–3473, 3481–348[illegible] 4849–4850, 4882–488[illegible] 4889, 5687, 5689, 57[illegible] 5758–5759, 5763–57[illegible] 6689, 6747, 7667, 77[illegible] 8436, 8579, 8595, 85[illegible] 9471–9473, 9476–94[illegible]
Zea, maize 6838, 9595[illegible]
Quality, for milling and b[illegible] [illegible]
Secale 5803
Triticum 161, 1017, 1[illegible] 3476, 3478, 4881, 5[illegible]
Quality, for nutrition
Agropyron 8830
Alopecurus 9715
Andropogon 7904
Arachis 2990
Avena 1049, 1818
Brassica, rape 549, [illegible]
Bromus 8813
Cicer 4085
Citrullus 3984
Coronilla 9752
crop plants 51, 17[illegible]
Cynodon 1959
Dactylis 358, 365, [illegible]
Daucus 724
Digitaria 8827, 97[illegible]
Eleusine 9650
Festuca 358
Glycine 3233, 644[illegible]
grasses 356–357, 4[illegible]
Hemarthria 8833, [illegible]
Juglans 6298
leguminous forage [illegible]
Lolium 1181, 440[illegible]
Lycopersicon 400[illegible]
Malva 8881
Medicago 393, 1[illegible] 9733

Quality, for nutrition *contd.*
Morus 2229
Onobrychis 6987–6988
Oryza 330, 5069, 5112
Panicum 6617
Pennisetum 5021, 7904, 9648
Phalaris 4403, 5951–5952, 9708
Phaseolus 3213, 5944, 6438
Pisum 6478
Prunus, almond 671, 671
Prunus, apricot 614
Prunus, cherry 6222
Prunus, nectarine 614
Prunus, peach 614
Prunus, plum 614
pulses 2349
Ribes, black currant 3054
Ribes, red currant 3054
Saccharum 9842
Secale 5801
Setaria 7863
Solanum, egg plant 2348, 4021
Solanum, potato 5186, 7982
Sorghum 1140, 1917, 1919, 2728, 5029, 5900, 7870, 9658
Triticum 1031, 2584, 4885, 7749
Vicia, vetch 9718
Vitis 8222
Zea, maize 230, 239, 1084, 1870, 2652, 4320, 4963, 4967, 4969, 4971–4972, 6814, 6828, 7587, 8689, 9593–9596, 9601
Zea, sweet corn 5844
Quality, for nutrition, technique
cereals 952
crop plants 1699
Quality, for pickling and salting
Allium, onion 6354
Cucumis, cucumber 5510, 6391
Quality, for popping, *Euchlaena* × *Zea,* maize 9567
Quality, for processing
Arachis 9920
Capsicum 9019
Dioscorea 8966–8967
Lycopersicon 4010, 7422, 10119
Phaseolus 7455, 8335, 9274
Pisum 1634
Ribes, red currant 9051
Solanum, potato 3303, 4442, 5185, 6580, 7019–7021, 7979, 9785
Zea, popcorn 3609, 5845
uality, for smoking, *Nicotiana* 2933, 2938–2939, 6113, 6121, 7131, 7142–7144, 8068, 8971–8972, 8980, 8991
uality, for storage
Allium, onion 7387, 10071
Apium 3162
Apium × *Petroselinum* 3162
Beta, sugar beet 4479–4480, 4482, 9880
Citrus, mandarin 7285
Cucumis, cucumber 764
Daucus 718
Fragaria 5412
Humulus 1354
Ipomoea 5213
Lactuca 6375–6376, 7377
Lycopersicon 6417, 10118
Malus 593, 1403, 7228, 7252, 9076–9077, 9951–9952
Pastinaca 3162
Phaseolus 3213
Pyrus 3876, 7228
Ribes, red currant 9051
Solanum, potato 718, 1240, 2026, 3739, 6611
egetable crops 7377
itis 2259, 3098, 3109, 3111, 3928, 6290, 7325
lity, for transport (*see* Mechanical njury)
lity, of cider, *Malus* 605
lity, of edible product
nethum 8368
rachis 9920
eta 4483, 6089, 8047
eta, sugar beet 4481
assica, mustard × *Brassica,* sprouting broccoli 734
trullus 6380
trus 3894
offea 6135
locasia 5263
Quality, of edible product *contd.*
Cucumis, melon 6380
Daucus 6268
Dioscorea 8051
Fagopyrum 9681
Fragaria 6268, 7237, 7299, 8199
fruit crops 9050
Hibiscus 3773, 7101
Juglans 10047
Lycopersicon 787, 2406, 6418, 6618
Malus 591, 3014, 3861, 4563, 5355, 9054, 9078
Phaseolus 4032
Piper 5325
Prunus, almond 4629
Prunus, apricot 2205, 9965
Prunus, cherry 3023, 9054, 9965
Prunus, peach 3033, 6230, 7280, 8452, 9054, 9965
Prunus, plum 2210, 9054, 9108, 9965
Punica 2249
Pyrus 3014, 9054
Ribes, red currant 10004
Rubus, raspberry 640, 2234, 4601, 6252, 7236
Solanum, egg plant 799
Solanum, potato 426, 428, 1241, 2852, 2854, 2856, 2858, 6002, 7020, 9785
Spinacia 7371
stone fruits 4573
Thea 4498, 8075
Theobroma 6138
Triticum 2519, 3475
Vaccinium 5407
vegetable crops 3956, 9050
Vitis 665, 2261, 3912, 7324, 7329, 8221, 10043
Zea, maize 4944, 5837
Zingiber 9929
Quality, of fibre
Cannabis 3771, 7099, 8021–8023, 8936
Corchorus 3772
Gossypium 464, 1258–1259, 1285, 2047, 2066, 2873, 2879, 3761–3762, 5222–5223, 6044, 6047, 7067, 7076, 7089, 7987, 7991, 8002, 8922, 9803, 9818
Linum 6055, 9831
Quality, of timber
Betula 5461, 10058
Chamaecyparis 4648
Larix 3141, 7364
Pinus 693
Populus 1489, 1505
Quality, of timber, technique, *Pinus* 1522
Quality, of wine, *Vitis* 659–660, 667, 1465, 2260, 3069, 3096, 3108, 3111, 3926–3927, 4156, 4626–4627, 5421–5422, 5435, 5437, 5439–5440, 6289, 6291, 6293–6294, 7217, 7323, 7326–7328, 8219–8220, 9181, 10042
Quality, technique, *Pisum* 839
Quercus
breeding, USA 680, 1498
cold resistance 3939
Cronartium 10057
geographical races 3939
history and evolution 3938, 7340
hybridization, interspecific 5454, 8247, 10056
insects 1500
leaf fall 1500
leaf, shape 6313
selection, natural 3121
stem 3121
taxonomy 5454, 7340, 8247, 10056
variation 1499, 6313
Quince (*see Chaenomeles; Cydonia*)
Races (*see* Ecotypes; Geographical races; Land races)
Radiation 6520–6521, 7995
Brassica, oil crops 3343
Citrus 9986
crop plants 1729, 5664, 8502
fruit crops 588
Glycine 4738
Gossypium 2062, 9807, 9810
Hordeum 1890, 4099, 4350
Lupinus 2827
Lycopersicon 6342
Malus 599, 3006
medicinal plants 2178
Oryza 3661, 4382
Radiation *contd.*
Pisum 4099
Prunus, cherry 5374
Rumex 2452
Secale 4273
Secale × *Triticum* 984
Sesamum 3343
Sorghum 2725
Tradescantia 17, 2452
Triticum 4857, 9444
Ustilago 4823
Vicia, broad bean 6524
Vitis 4625
Zea, maize 8687
Radioactive isotopes, *Vicia,* vetch 9743
Radish (*see Raphanus*)
Rai (*see Brassica,* mustard)
Ramie (*see Boehmeria*)
Ramularia, *Gossypium* 9826
Ramulispora
Sorghum 1145
physiological races 3647
Ranunculus
embryology 40
tissue culture 40
Rape (*see Brassica,* rape)
Raphanus
breeding
Poland 7955
Thailand 7570
Tunisia 5487
chemicals, as plant constituents
calcium 8264
magnesium 8264
oxazolidinethione 6358
potassium 8264
sodium 8264
chemicals, general effects, ozone 7378
flower 6349
genetics
flower 6349
leaf, colour 10076
leaf, weight 6348
root, weight 6348
sterility, male, cytoplasmic 725
heterosis 5489, 9213
Hylemyia 2302, 9205
irrigation 8264
leaf, colour 10076
leaf, weight 5489, 6348
Peronospora 7370
pleiotropy 10076
pollen 3960
pollution, atmospheric 7378
polyploidy 3145, 8264
root, weight 3145, 5489, 6348
sterility and fertility 3960
sterility, male, cytoplasmic 725
varieties
Bulgaria 6347
India 2305
Sweden 2298
varieties, classification 7383
variety trials
Canada 2480
UK 10069
yield components 7382, 9821
Raphanus × ***Brassica,*** hybridization, intergeneric 7392
Raphanus × ***Brassica,*** **kale,** hybridization, intergeneric 9224
Raphanus × ***Brassica,*** **turnip,** hybridization, intergeneric 6572
Raspberry (*see Rubus,* raspberry)
Rat, *Saccharum* 494

Recessiveness (*see* Dominance)
Recombination 15, 864, 1652, 1661, 2459, 3259, 5611, 5613, 6499, 7536, 8376
Beta, sugar beet 3790
Hordeum 7862
Lupinus 9748
Lycopersicon 779
Oryza 4378–4379
Pisum 4079, 5583, 7498, 9303, 10155
Solanum, potato 2015
Triticum 6727, 8574
Ustilago 1666
Zea, maize 228, 4941, 8698
Recombination, mitotic (*see* Mitotic recombination)
Red cabbage (*see Brassica,* red cabbage)
Red clover (*see Trifolium,* red clover)

Red currant (*see Ribes,* red currant)
Red leaf, *Gossypium* 8005
Reduction division (*see* Meiosis)
Reed grass (*see Calamagrostis, Phalaris*)
Reproduction
Claviceps 4751
Danthonia 378
Trifolium, subterranean clover 2819
Respiration
Beta, sugar beet 4473
Brassica, kohl rabi 6996
crop plants 7644
Glycine 7484
Lycopersicon 7604, 9249
Macrophomina 484
Nicotiana 8986–8987, 8989
Oryza 5075
Picea 9190
Populus 7341, 7344
Pyrus 2201
Secale 2624
Triticum 1044, 1779, 2573, 6743, 8606, 8611–8612, 9462
Vitis 3104
Zea, maize 9565
Rhagoletis, Malus 8152
Rheum
breeding, Lithuanian SSR 6374
chromosomes, number 3976
variety trials, USSR 10090
Rhizobium
Arachis 9014
bacteriophages 1978
chemicals, as plant constituents
hydrogenase 806
nitrogenase 5549
nucleic acids 2380
chemicals, general effects
glycine 6973
miscellaneous 1976, 7488
sodium chloride 386, 6974
Cicer, physiological races 846
Crotalaria 1976
physiological races 5960
Desmodium 2004
physiological races 5960
Dolichos, physiological races 9264
genetics, nitrogenase 5549
Glycine 1976, 2380, 4051, 4739, 8347
physiological races 3236–3237, 4058, 6466, 6964, 7488, 8346
immunology 1977, 3237
leguminous forage crops 385, 1978, 2788, 5961, 6965, 7925, 9933
physiological races 1977, 7924
Leucaena, physiological races 5960
Medicago, physiological races 386, 2809, 5160, 6973–6974
Mimosa 5960
mutation 1978
mutation, induced 398
Phaseolus 7465–7466
physiological races 5564, 9264
Pisum 7508
physiological races 386, 806
plant introduction 382
pulses 2349, 5548–5549
salinity 6974
Sesbania 1976, 5960
soil pH 6983
Stylosanthes, physiological races 9751
taxonomy 2788, 5548
temperature, effect of 4058, 7949
transduction 385
Trifolium 398
physiological races 6976
Trifolium, minor species 403, 2824
Trifolium, red clover, physiological races 6964
Trifolium, subterranean clover, physiological races 7949
Trifolium, white clover 1204, 3709
physiological races 3708, 6964, 6983
ultraviolet rays 7488
Vicia, broad bean, physiological races 806
Vigna, physiological races 5960
***Rhizobium,* technique,** leguminous forage crops 7924
Rhizoctonia (*see also Corticium*)
chemicals, as plant constituents, enzymes 76
crop plants 76
Rhizoctonia *contd.*
Oryza 1944
Phaseolus, physiological races 4730
Rhizopertha, *Triticum* 2606
Rhizopus
Lycopersicon 9055
Malus 9055
Mangifera 9055
Solanum, potato 9055
***Rhizopus,* technique,** *Fragaria* 10016
Rhodes grass (*see Chloris*)
Rhoeo, chromosomes, morphology 5624
Rhopalosiphum
cereals 8536
Hordeum 9643
Sorghum 3648
Rhubarb (*see Rheum*)
Rhynchosporium
Hordeum 279, 1127, 2712–2713, 3391, 5876, 6887, 7859
physiological races 6888, 7664, 9637
Secale, physiological races 5016
Ribes
chemicals, cytological effects, colchicine 9152
chemicals, general effects, herbicides 5403
habit 8442
hybridization, interspecific 9152
Hyperomyzus 6184
Nasonovia 6184
polyploidy 9152
rooting capacity 5403
taxonomy 1436
variety trials, USSR 10003
***Ribes,* black currant**
Aphis 3903
breeding, USSR 10005
chemicals, as plant constituents
ascorbic acid 7224
phenols 6255–6256
cold resistance 3054, 6184
embryology 1438
flowering 3057, 5404, 6195
genetics, viruses 7296
growth period 3054
heat and drought resistance 3054
hybridization, interspecific 3054, 3057–3058, 6184, 9044, 9153
meiosis 1438
multiple genes 3058
pathology 3054
Phytoptus 6184
pollination 5405, 10006
Pseudopeziza 3058, 7224, 9044
quality, for conserving 10007
quality, for nutrition 3054
Sphaerotheca 6184, 6255–6256, 7224, 9038, 9044
sterility and fertility 3054, 3057
sterility, self 5405, 9154–9155
varieties
UK 9038
USSR 3056
variety trials, Poland 1437
viruses 7296
***Ribes,* black currant × *Ribes,* gooseberry**
cytology 9151
hybridization, interspecific 9151
mitochondria 9151
***Ribes,* gooseberry**
chemicals, as plant constituents, phenols 6255
flowering 6195
fruit 8191
genetics, *Sphaerotheca* 3949, 5406
hybridization, interspecific 6185, 7225, 8191
multiple genes 3949, 5406
photoperiodism 2918
pollination 2984
Pseudopeziza 6185, 7225
Sphaerotheca 3949, 5406, 6185, 6255, 7225, 8191, 9156
sterility, male 2918
varieties, USSR 3049
***Ribes,* gooseberry × *Ribes,* black currant,** hybridization, interspecific 9151
***Ribes,* red currant**
cell inclusions 643
cold resistance 3054
***Ribes,* red currant** *contd.*
flowering 6195
growth period 3054
heat and drought resistance 3054
hybridization, interspecific 7223
meiosis 643
pathology 3054
quality, for nutrition 3054
quality, for processing 9051
quality, for storage 9051
quality, of edible product 10004
sterility and fertility 3054
variety trials
Denmark 3055
Poland 1437, 2237
Rice (*see Oryza*)
Ricinus
breeding, USA 9911
combining ability 2977, 7168
Dichocrocis 5307
habit 9911
heat and drought resistance 4507
height 7169
hybrid varieties 8094
sex 4508, 8094
varieties
India 4507
USSR 7167
yield components 2977
Robinia
breeding, Hungary 1496
polyploidy 7350
Roegneria* × *Secale
embryo culture 5683
hybridization, intergeneric 5683
meiosis 5683
Root
Apium 9228
Avena 6674
Beta, sugar beet 8044
cereals 8529
crop plants 66
Glycine 6469
Gossypium 7077
Hordeum 8751
Lycopersicon 7444
Medicago 5940
Nicotiana 3815
Oryza 5090
Panicum 8807
Pennisetum 8807
Pisum 840, 1631, 10168
Prunus, cherry 4582
Secale 1826, 3551
Setaria 8807
Triticum 1008, 1808, 4891, 8529, 8619, 9458
Valeriana 6176
Zea, maize 236, 2643, 3601, 3604, 5838, 8528, 8700
Root, anatomy
Beta, sugar beet 7121
Elaeis 4518
Ipomoea 7043
Secale × *Triticum* 9446
Triticum 9467
Root, colour, *Daucus* 2303, 10074
Root, number
Hordeum 3622, 9636
Triticum 8581, 8610, 9459, 9490
Root, shape
Beta, sugar beet 5259
Daucus 720, 3142, 3959
Root, shape, technique, *Daucus* 3144
Root, size
Daucus 720, 3142, 3959
Hordeum 3622
Malus 9070
Oryza 5033
Triticum 8569, 8610
Root, weight
Beta, sugar beet 4486, 4816, 9865,
Raphanus 3145, 5489, 6348
Zea, maize 9585
Rooting capacity 9093
Malus 8147, 9063
Mentha 4089
Persea 6248
Picea 6325
Prunus, apricot 9099
Prunus, cherry 6226
Ribes 5403
Rootstock (*see also* Grafting)

Rootstock *contd.*
Citrus 3039
Malus 609–610, 2190, 5353, 7249, 8147, 9058, 9945
Prunus, almond × *Prunus,* peach 7334, 10052
Prunus, cherry 2181, 2213, 4146, 4578–4579, 6226, 7269, 8167
Prunus, peach 8167
Prunus, plum 619, 8167
stone fruits 1407
Vitis 3920, 4147, 6276, 8206, 9177
Rosa
chemicals, as plant constituents, oil, essential 2168–2169
pathology 6169
Roselle (*see Hibiscus*)
Rotation (*see* Succession, crop)
Rotylenchulus
Gossypium 5227
Lycopersicon 5537
Rubber (*see Hevea*)
Rubus
andrecium 9150
chromosomes, number 4810
development, abnormal 9150
taxonomy 3047
***Rubus,* blackberry**
taxonomy 642, 2236
varieties, USA 4548
variety trials, USA 641
Rubus* × *Fragaria, hybridization, intergeneric 8197
***Rubus,* raspberry** 4603
altitude 7294
Amphorophora 4599, 6183, 6253, 10002
physiological races 7294
breeding
UK 1434
USA 10001
Byturus 6183, 9043
chemicals, as plant constituents, miscellaneous 640, 7293
chemicals, fertility and sex, effects, 2-chloroethanephosphonic acid 4553
chemicals, general effects
2-chloroethanephosphonic acid 9148
dichlofluanide 9149
chromosomes, aberrations 4602
cold resistance 3053
development and growth 3052
Didymella 6183, 9149
dormancy 3050
flower, number 6183
Fusarium 9043
genetics 7294
glands 3050
glands 3050
Hapalosphaeria 9043
harvesting, mechanical 9148
hybridization, interspecific 2235, 6183
pollination 3050–3051
quality, of edible product 640, 2234, 4601, 6252, 7236
Sclerotinia 6183, 9149
sex 7222
shedding 9148
Sphaerotheca 4149, 7222, 7294
sterility, male 4602–4603
taxonomy 2235, 7295
variation 3053, 7294
varieties
Bulgaria 3902
canada 10002
UK 1435, 6186, 7222
USA 4547, 6251
USSR 3048
variety trials
Canada 4149
Denmark 4601
Rumania 8190
S. Korea 4600
UK 6250
Yugoslavia 3052
Rumex
chemicals, as plant constituents, chromatin 4022
chromosomes, accessory 4023
chromosomes, morphology 801
polyploidy 2452
radiation 2452
sex chromosomes 4022, 7449
Rutabaga (*see Brassica,* swede)
Rye (*see Secale*)
Ryegrass (*see Lolium*)
Saccharum
Aceria 9844
breeding
Argentina 3294
Australia 6067
Barbados 6068
India 5237, 8032, 8942
Jamaica 2893
Philippines 2892
Taiwan 7102
USA 498, 1306–1307
Cercospora 495
chemicals, as nutrients, nitrogen 2901
chemicals, as plant constituents
nucleic acids 5240
phosphorus 6074
protein 8036
sugar 492, 2900, 8943
trehalase 8943
chemicals, general effects
2,4-D 9843
herbicides 2902
sodium chloride 2088
sodium sulphate 2088
chromosomes, number 491
cold resistance 493, 7108
density of stand 9840
development and growth 1303
Diatraea 2903, 6078
flowering 2087
γ rays 490, 6067, 7107
genetics
stem 6071
viruses 8037
Gibberella 1311
growth period 1310, 6073
heat and drought resistance 8035
height 7107
Helminthosporium 8036
Helminthosporium, technique 496
heritability 2900, 6072, 8033
mutation, induced 490, 2892, 7107, 8033
nematodes 1304, 6065
Numicia 5244
pathology 6075
photoperiodism 2087, 4470, 5241, 6065–6066
Physalospora 8033
Physalospora, technique 1312
plant introduction 7105
Pratylenchus 2892
Pythium, physiological races 6077
quality, for nutrition 9842
rat 494
Sclerospora, technique 6076
selection, artificial 1305, 2085, 2900
Sipha 1313
stem 6071
Ustilago 497–499, 5242–5243
varieties
Australia 7104
Bangladesh 6070
Cuba 3777
India 8033
Jamaica 1309
Pakistan 489
South Africa 5239, 7105
Thailand 7571
USA 4463–4469, 7106, 8034, 9841
variety trials
Argentina 1308, 1310
Barbados 6068
Ghana 488
India 2896, 3775–3776
Jamaica 1305
Mauritius 2898
Philippines 2895, 2897
Portuguese East Africa 2086
Reunion 2894
USA 6069, 6073, 9840
Venezuela 5238, 7103
vegetative reproduction 2085
viruses 2892, 6065, 8037, 9845
physiological races 2904, 5129
Xanthomonas 6065–6067
yield components 2085, 2899, 6072
Safflower (*see Carthamus*)
Sage (*see Salvia*)
Sahlbergella, Theobroma 6140
Sainfoin (*see Onobrychis*)
Saintpaulia
mutation, induced 4766
neutrons 4766
X rays 4766
Salinity
Cicer 9312
Gossypium 5226
Medicago 6974, 7940
Oryza 2744, 2750, 5114–5115, 5653
Rhizobium 6974
Secale × *Triticum* 4852
Solanum, potato 7024
Sorghum 4373, 5901
Trifolium, minor species 6984
Vitis 8206
Zea, maize 4974, 9604
Salix
bark 9040
chemicals, as plant constituents
anthocyanins 6320, 9040
flavonoids 9040
chemicals, general effects, sodium chloride 5458
chromosomes, number 2430
development and growth 1511
hybridization, interspecific 688, 1510
plant collections 9040, 10059
population genetics 2270
stem 8251
taxonomy 1512–1513, 9040
varieties, classification 5462
vegetative reproduction 5462
water balance 1511
Salmonella
chemicals, mutagenic effects, miscellaneous 1668
mutation, induced 1668
Salting quality (*see* Quality, for pickling and salting)
Salvia
breeding, USSR 9923
chemicals, as plant constituents
miscellaneous 9313
oil, essential 2168, 9018
mutation, induced 2402
neutrons 2402
polyploidy 1645, 2403, 9018
Sarson (*see Brassica,* oil crops)
Saskatoon (*see Amelanchier*)
Scald, *Malus* 5357, 9083
Schizaphis
Hordeum 4995
Sorghum 1146, 3648–3649, 4375, 8782, 9373
Schizotetranychus, Cajanus 5594
Scion (*see* Grafting)
Scirrhia, Pinus, physiological races 3139
Scirtothrips, Capsicum 8122
Sclerenchyma
Festuca 7655
Triticum 4229
Scleroderris, Pinus 2285
Sclerophthora
Triticum 172
Zea, maize 1100
Sclerospora
Pennisetum 304, 1753
Sorghum 304, 1753, 9663
Zea, maize 4279, 7828, 9610
***Sclerospora,* technique**
Saccharum 6076
Zea, maize 5843
Sclerotinia
Allium, onion 7388, 9216
Brassica, cabbage 4173
Fragaria 3061, 3066, 7303–7304, 9045, 10015
grasses 1173
Helianthus, sunflower 1362, 7661
Lactuca 5501
Malus 4567
Pisum 4746
Prunus, almond 10053
Prunus, apricot 9100, 9940
Prunus, cherry 3030
Rubus, raspberry 6183, 9149
Trifolium, Alsike clover 5973
Trifolium, red clover 1200, 4159, 5973
Trifolium, white clover 6541
Vitis 3091, 8229–8230
***Sclerotinia,* technique,** *Fragaria* 10016
Sclerotium (*see also Leptosphaeria, Macrophomina*)

Scopolia
chemicals, as plant constituents, alkaloids 7206
hybridization, interspecific 7206
Scorzonera, varieties, German Federal Republic 9262
Seakale (*see Crambe*)
Secale
Alternaria 9537
aneuploidy 3541
apomixis 7785
breeding
Denmark 9357
German Federal Republic 207, 7780
Hungary 1051
Poland 3535
USSR 8644
Calonectria 6797, 8643, 8658
cell division 7558, 7783
Cercosporella 3389, 3554
chemicals, as nutrients, nitrogen 5686, 6795
chemicals, as plant constituents
alcohol dehydrogenase 209
aminoacids 8531, 8653
anthocyanins 2625, 4878
chlorophyll 950, 1052
gum 3553
histone 4219
lysine 5686
miscellaneous 3551
nucleic acids 8648
phosphorus 4925
protein 4269, 4918, 5686, 5722, 8531, 8653, 9531
starch 8653
sugar 3387
wax 3538
chemicals, cytological effects
2,4-butanesultone 4106
gibberellins 3544
maleic hydrazide 3544
chemicals, fertility and sex, effects
gibberellins 3544
maleic hydrazide 3544
chemicals, general effects, CCC 2626, 3389
chemicals, mutagenic effects
ethyl methanesulphonate 4272
ethyleneimine 4921
nitrosodimethylamine 2620
N-nitroso-*N*-ethylurea 4921
N-nitroso-*N*-methylurea 4272
chromosomes, aberrations 1054, 3544, 4106, 4273, 4925
chromosomes, accessory 1823, 9441
chromosomes, morphology 2622, 3545, 7782
chromosomes, morphology, technique 1053
chromosomes, number, technique 3543
chromosomes, substitution 137
cold resistance 950, 3387, 3534
colour 4272
combining ability 3539
crossing over 3541, 5800, 7784
density of stand 4927
development and growth 7786, 7788
diallel analysis 8654
dormancy 7737
embryology 4924
Erysiphe 4919
γ rays 1054, 4272
genetics
alcohol dehydrogenase 209
chlorophyll 1052
habit 3538
height 1824, 3534
inflorescence 3538
sterility, male 211, 3550
wax 3538
germination 4925, 9536
growth period 3534
gynecium 7787, 8436
gynecium, size 7673
habit 3538
height 212, 1824, 3534, 4271, 5799, 7781, 8655, 9530
heterosis 4271, 4919, 8643, 9531–9532
history and evolution 1823, 2621, 3540, 6671
humidity 8651

Secale contd.
hybridization, interspecific 2621, 4918–4919, 7782, 8649–8650
inbreeding 210, 3533, 4269, 6794, 8645
inflorescence 3538, 3551
interference 7784
leaf 7786
leaf, anatomy 5801
lodging 212, 1056, 4927, 6795, 8643, 8655–8657
magnetism, effect of 7558
matrocliny 3537
meiosis 210, 1053, 2506, 2623, 3540, 3542, 4922, 5800, 6668, 8649, 9390
mowing and cutting 6796
mutation, induced 2620, 4272, 4921, 7781
neutrons 4920, 7781
nucleus, size 4273
perennial habit 8650
photoperiodism 7788
pollen 2506, 3547, 3552, 9535
pollination 4185, 7673, 7785, 7787, 8436
polyploidy 948, 2624, 3533, 3546, 4274–4275, 4922–4924, 5800, 5802, 6793, 6795, 7783, 8649, 8655, 9390, 9533–9534
Puccinia 942, 1056, 3391, 8658
quality, for milling and baking 1827, 2509, 3381, 3553, 5802
quality, for milling and baking, technique 5803
quality, for nutrition 5801
radiation 4273
respiration 2624
Rhynchosporium, physiological races 5016
root 1826, 3551
seed 9536
seed production 6796
seed, size 4269, 8651
sex 6668
stem 3551
stem, anatomy 5801
sterility and fertility 3533, 3541, 4185, 4269, 4919, 5799, 9390, 9441
sterility, male 211, 1055
sterility, male, cytoplasmic 1825, 3547–3548, 3550, 3552, 7789, 8652–8653, 9449, 9535
sterility, self 4275, 6794, 7787
taxonomy 3545, 7675, 7780, 8532
temperature, effect of 2506, 2620, 8651
translocation 1053, 2621, 3540, 7784, 8649
varieties
Austria 208
Canada 3536, 6792
Sweden 4119
USSR 4270
variety trials
Poland 3546, 8643
Switzerland 6664
USSR 3534, 8489, 8646–8647
vascular tissue 5801
viruses 7773
yield components 2509, 3549, 4271, 4926, 7786, 8650, 8654
Secale* × *Aegilops, hybridization, intergeneric 3523
Secale* × *Elymus, hybridization, intergeneric 5683
Secale* × *Roegneria, hybridization, intergeneric 5683

Secale* × *Triticum
andrecium 6716
aneuploidy 984, 1811, 2548, 4216, 4844, 5720, 8559, 8584, 9417–9419, 9425
asynapsis 139
breeding, USA 6717, 6717
Calonectria 7713
cell division 6718
chemicals, as plant constituents
aminoacids 981, 981
enzymes 5768
histone 127
lysine 7743
protein 3440, 5722, 7705, 7711, 7743, 9426, 9432

Secale* × *Triticum contd.
chemicals, as plant constituents contd.
starch 125, 125
tryptophan, technique 4224
wax 5725
chemicals, cytological effects, colchicine 4228
chemicals, fertility and sex, effects, gametocides 8591
chimeras 9425
chromosomes, morphology 2622, 5721
chromosomes, substitution 137
cold resistance 1796, 7711, 7757, 8558, 8573
combining ability 7718
cytoplasmic inheritance 3426
development, abnormal 6716
diallel analysis 7718
Erysiphe 4254
fertilization, sexual 7715
flowering 2541, 6714, 7714
Fusarium 7711
genetics
Puccinia 2543
sterility and fertility 3427
wax 5725
genome analysis 2511
germination 4852–4853
growth period 7706, 7711
gynecium 8436
gynecium, size 7673
habit 7713
height 131
heterosis 1786
history and evolution 2511
hybridization, graft 9425
hybridization, intergeneric 122, 125, 125, 127–128, 131, 133, 139, 980–981, 984, 988
1786, 1796, 1811–1812, 2511, 2514, 2539, 2543, 2548–2549, 2559, 2597, 2622, 3423, 3426–3427, 3429, 3431, 3434–3435, 3440, 3472, 3477, 4117, 4216–4217, 4219, 4224, 4228, 4254, 4844, 4848, 4851–4853, 4922, 5678, 5699, 5718, 5720–5722, 5724–5725, 5727, 5768, 6704, 6706–6711, 6714–6718, 7673, 7673, 7705–7706, 7708, 7708, 7710–7711, 7713–7716, 7718, 7727, 7743, 7757, 7773, 7785, 8436
8561, 8565, 8572–8573, 8584, 8591, 9376, 9417–9421, 9425–9426, 9428, 9432, 9445–9446
inflorescence 984
lodging 7711, 8558
meiosis 128, 2549, 2559, 3429, 4217, 4228, 5727, 6708–6710, 7708, 9419–9421, 9445
mitochondria 9376
mutation 3429
mutation, induced 984
nucleolus 6709
pollination 2541, 4853, 6714, 7673, 7710, 7713, 8436
polyploidy 1786, 2539, 2548, 4216, 6704, 6709–6710, 7706, 9445–9446
Puccinia 1811–1812, 2543, 2597, 3434, 7706, 7711
physiological races 122
quality, for malting and brewing 133
quality, for milling and baking 133, 1015, 1786, 3472, 6707, 6715, 7706, 7711, 9426, 9428, 9432
radiation 984
root, anatomy 9446
salinity 4852
seed, size 2548
spring and winter habit 1770
sterility and fertility 2541, 2549, 3427, 3435, 4216, 6704, 6706, 6708, 6710, 7706, 7708, 7785, 8584, 9419, 9421, 9445
sterility, male 8591

Secale* × *Triticum *contd.*
sterility, male, cytoplasmic 3423
translocation 1811
Ustilago 3434
variety trials 4851
USA 131, 980, 5699, 8561
viruses 7773
X rays 1811
Seed
Acer 7351
Arachis 4527
Avena 2611, 4267, 9520
Beta 6090
crop plants 6657
Glycine 834, 4064
Gossypium 455, 462, 1266, 6043, 7086, 8920
grasses 8806
Helianthus, sunflower 2985, 8099, 9007
Hordeum 6878
leguminous forage crops 384
Malus 8143
Medicago 1990
Oryza 1932, 3660, 5110, 5920
Phaseolus 1594
Picea 4647
Pinus 3137
Pisum 4743
Pyrus 3011
Secale 9536
Sorghum 3643, 8775
Trifolium 5161
Trifolium, red clover 8854
Trifolium, subterranean clover 2819
Triticum 161, 2515, 2568, 3421, 4241, 8575
vegetable crops 709
Vicia, vetch 7951
Vigna 2371, 5568
Zea, maize 1862, 1867, 3589, 5842
Seed, anatomy
Hordeum 3623
Triticum 3506, 4238
Vicia, broad bean 5557
Seed, colour
Arachis 1375
Avena 6782
Cajanus 5592, 8360–8362, 8364
Cannabis 9836
Cicer 3250
Corchorus 7100
Glycine 6457
Linum 1289
Lycopersicon 9245
Oryza 5921, 8786, 8788
Phaseolus 808, 811
Pisum 4741
Sesamum 1360
Sorghum 5903–5904, 9662
Theobroma 1347, 2963
Triticum 120, 2564, 3447, 3460, 3491, 5729, 7702, 9447
Vicia, vetch 5983, 9742
Vigna 6446, 6619, 7584
Zea, maize 233, 4939, 8677
Seed, number
Brassica, oil crops 5302
Carica 639
Phaseolus 10136
Pisum 4079
Vaccinium 6258
Vitis 6288, 8214, 8221
Seed production
Allium, onion 6351
Betula 7338
Bromus 5948
cereals 3386, 7621
Cocos 4596–4597, 8188
crop plants 72, 4815, 6650, 6659
Cucurbita 8292
Elymus 1972
Festuca 360
forest trees 679, 1480, 1492
Glycine 6452
Gossypium 1286
Helianthus, sunflower 8096
Lycopersicon 2331, 4012, 8313, 9245
Medicago 2808, 5156
Ornithopus 4427
Phleum 360
Pinus 6323, 10060
pulses 7621
Secale 6796
Seed production *contd.*
Sinocalamus 6961
Triticum 3494, 8603
Seed production, technique, *Festuca* × *Lolium* 9703
Seed, shape
Herrania × *Theobroma* 7157
Oryza 7883
Pisum 10170
Prunus, cherry 8174
Theobroma 7157
Vicia, vetch 5983
Vitis 7320
Seed, size
Beta, sugar beet 3793
Brassica, oil crops 9905
Cajanus 4748
Fagopyrum 5934
Hordeum 1891, 1901, 4361
Lycopersicon 3177, 6406, 8301
Medicago 9724–9725
Oryza 1149, 1944, 2743, 6918
Phaseolus 816, 3215
Pisum 6477, 7495
Prunus, cherry 8174
Prunus, nectarine 3888
Prunus, peach 3888
Pseudotsuga 7366
Secale 4269, 8651
Secale × *Triticum* 2548
Theobroma 7156
Triticum 5729, 6676, 8576, 9403
Vitis 6288, 7320
Zea, maize 3582, 9590
Seed storage
Eleusine 7676
Hordeum 3620
Oryza 7676
Seed testing, *Daucus* 10075
Seed, texture
Gossypium 9814

Pisum 9304
Seed, weight
Glycine 1616
Linum 1289
Oryza 4387
Papaver 2969
Pinus 3135
Triticum 2533, 4210
Zea, maize 3591, 4303, 4930
Seedlessness
Cucumis, melon 2319
Humulus 2971
Vitis 2254
Seedlings
Oryza 6928
Phalaris 5953
Triticum 2571
Seedlings, colour, *Beta,* sugar beet 9876
Segregation, mitotic (*see* Mitotic recombination)
Selection 879, 1665, 2408, 2411, 2458, 3279, 5610, 6531, 9326, 9344–9345
Selection, artificial 5, 868, 1659, 1659, 3268, 4097, 4756, 4761, 6504
Beta, sugar beet 4472, 4481, 9863
Betula 7338
Brassica, rape 9902
cereals 945
Cocos 4595
Corchorus 483
crop plants 5612, 7610, 8485, 9364
Elaeis 2142
Elymus 1972
Festuca 360
Glycine 6448, 9284
Gossypium 454, 1261, 3752, 6030, 6032
grasses 4400
Hordeum 1885, 2677, 3622, 9617
Humulus 7158
Ipomoea 7041
Larix 1529
leguminous forage crops 4400
Lolium 1963, 2771
Lotus 2409
Lycopersicon 4154, 4692, 4711
Medicago 8838, 9729
Oryza 1147, 3336, 6910
Phleum 360
Pinus 10060
Pisum 6473
Saccharum 1305, 2085, 2900
Selection, artificial *contd.*
Solanum, potato 1230
Sorghum 1142, 2720
Trifolium, minor species 1999
Trifolium, white clover 2409
Triticum 2516, 4191, 5743, 6676, 6680, 9403
Vitis 2251, 3070
Zea, maize 214, 1058, 1068, 1828, 1830, 2641–2642, 3555–3556, 3598, 4928, 4931, 4941, 8661, 8665–8667, 8717, 9539–9541
Selection, artificial, technique
Beta, sugar beet 7113
Medicago 8851
Solanum, potato 5998
Triticum 4243
Selection, natural 44, 1656, 1658, 1679, 2412, 2421–2422, 5608, 5628, 6538, 7540, 9343
Agrostis 367
Anthoxanthum 379
Avena 9526
Fagopyrum 8800
forest trees 1478
Hordeum 266, 1904, 2689, 5011–5012
Lupinus 406
Medicago 1983
Oryza 2749
Pisum 4070
Quercus 3121
***Selenophoma,* Hordeum** 2712
Self sterility (*see* Sterility, self)
Sepal (*see* Calyx)
Septoria (*see also Leptosphaeria, Mycosphaerella*)
Hordeum 277
Lycopersicon 1583, 2345
Triticum 174, 942, 970, 1799, 3391, 4895, 4898, 8622, 8625
Sequoia
chromosomes, accessory 7367
chromosomes, morphology 7367
cuttings 1534
pollination, technique 1534

Serradella (*see Ornithopus*)
Sesame (*see Sesamum*)
Sesamum
Alternaria 553, 2978
breeding
Bulgaria 3833
Venezuela 2468
chemicals, as plant constituents
oil, fatty 550–551, 3343
protein 552
chemicals, fertility and sex, effects
miscellaneous 1359
morphactins 5308
competition 5310
development and growth 2137
ecotypes 5309
flower 3834, 5308
fruit 3834
genetics 3834
seed, colour 1360
germination 2137
growth period 550
height 550
leaf 3834
pathology 550
Phytophthora 4509
plant collections 551
pleiotropy 3834
radiation 3343
seed, colour 1360
sex 5308
shedding 3834
Systeria 2468
variation 551, 5309
yield components 6151
Sesbania, Rhizobium 1976, 5960
Setaria
breeding, India 5650
breeding, USA 4819
chemicals, as nutrients
nitrogen 5881
potassium 5881
chemicals, as plant constituents
oxalic acid 5020, 5881
potassium 5938

Setaria contd.
chemicals, as plant constituents *contd.*
sodium 5938
chromosomes, number 5128
development, abnormal 4364
ecotypes 1691
inflorescence 4363–4364
plant collections 6892
plant introduction 7863
quality, for nutrition 7863
root 8807
Sex 1681
Acer 5463
Asparagus 9218
Benincasa 5513
Beta, sugar beet 510
Cannabis 8017, 8019–8020, 8934–8936, 9832–9834
Carica 2232, 7583, 9147, 9999
Citrullus 3983
Cochliobolus 6852
Cocos 6243
Cola 8084
Coriandrum 7521
crop plants 7562, 7651
Cucumis, cucumber 745, 759, 1557, 2322, 3168, 3989, 4131, 4689, 7416, 8297, 8429, 10097, 10099–10101
Cucumis, melon 745, 1553, 5505
cucurbits 9229
Daucus 6345, 8444
Eragrostis 9710
Hordeum 6668
Lagenaria 1560
Luffa 5514
Morus 5392
Panicum 3633
Piper 6170
Populus 6315
Ricinus 4508, 8094
Rubus, raspberry 7222
Secale 6668
Sesamum 5308
Spinacia 3975, 8280
Triticum 6668
Vitis 1464, 2255
Sex chromosomes
Coccinia 7421
Humulus 2973
Rumex 4022, 7449
Sex linkage 9327
Sex, technique, *Myristica* 576
Shaddock (*see Citrus,* pomelo)
Shallot, ***see Allium,*** **shallot**
Shattering (*see* Shedding)
Shedding
Avena 9518
Corchorus 7100
Eleusine 6560
Fagopyrum 1169, 8800
Glycine 3227
Gossypium 3760, 5221, 7997
Hordeum 4346, 4995
Lycopersicon 6404
Mangifera 5394
Oryza 327
Phaseolus 810
Prunus, peach 5380
Prunus, cherry 8172
Prunus, peach 3035, 5380, 9134–9135
Rubus, raspberry 9148
Sesamum 3834
Triticum 3463
Vitis 3928, 7321
Silage
cereals 2510
Sorghum 2729
Zea, maize 1064, 3569, 4142, 6803, 6828, 9564
Sinapis (*see Brassica,* mustard)
Sinocalamus
flowering 6961
seed production 6961
Sipha, *Saccharum* 1313
Sisal (*see Agave*)
Sitona, *Lens* 849, 1638, 2396, 6484
Sitophilus, *Triticum* 2606
Sitophilus, **technique,** *Zea,* maize 252
Sitotroga
Oryza 2755, 7895
Zea, maize 6854, 8729
Slugs, *Solanum,* potato 6613
Smoking quality (*see* Quality, for smoking)
Sogatella, *Oryza* 5064, 5907
Sogatodes, *Oryza* 346–347, 6930
Soil pH
Daucus 6268
Fragaria 6268
Hordeum 8756–8757
Medicago 8845
Oryza 5092
Rhizobium 6983
Triticum 6733
Zea, maize 2647–2648
Soil sickness, *Trifolium,* minor species 1207
Soja (*see Glycine*)
Solanum (*see also Lycopersicon*)
aneuploidy 26
anther culture 26, 6528
anther culture, technique 3291
chemicals, as plant constituents
alkaloids 5417
solasodine 9932, 10020–10021, 10023
chromosomes, morphology 7308
haploidy 26, 3291, 6528
hybridization 10020
hybridization, interspecific 10021
mutation, induced 9025
polyploidy 26, 10020–10021
γ rays 9025
spines 9025
taxonomy 10023
Solanum, **egg plant**
andrecium 9260
Aphis 9261
flower 798
fruit, colour 3198
genetics
fruit, colour 3198
height 3198
leaf, shape 3198
Pseudomonas 5540
yield components 4717
glass and plastic, cultivation under 3954
Glomerella 4719
gynecium 9260
heat and drought resistance 9260
height 3198
heterosis 9258
hybrid varieties 1696, 9211
hybridization 5540
hybridization, interspecific 796, 4020
irrigation 9259
leaf, shape 3198
Myrothecium 6427
Pseudomonas 4718, 5540, 7448
quality, for nutrition 2348, 4021
quality, of edible product 799
sterility and fertility 796, 798
sterility, male 797
varieties
France 9211
India 9261
Italy 3954
USA 5539, 6655
variety trials
Bangladesh 2347
Hungary 7446
Rumania 7447
yield components 4717
Solanum* × *Lycopersicon, hybridization, intergeneric 5523
Solanum, **potato**
adaptability 418
Alternaria 2862, 7028
Alternaria, technique 439
anatomy 2851
aneuploidy 2846
anther culture 39, 2018
apomixis 2850
Bemisia 3750
breeding 2867
Belgium 7025
Czechoslovakia 2836
France 9757
Georgian SSR 8883
India 430, 2837, 7960
Mexico 440
Netherlands 6999, 7959
Poland 1231, 3722, 4429, 5181–5190, 9755
UK 6573
Ukrainian SSR 2008, 9781
USA 415, 8262
Solanum, **potato** *contd.*
breeding *contd.*
USSR 2009, 2835, 5997, 6997, 9754, 9756
Venezuela 2464
calyx 9775
cell division 5200
centres of origin 429, 4444
chemicals, as nutrients
miscellaneous 1243, 2025, 2859
nitrogen 6015–6016
chemicals, as plant constituents
aminoacids 2858, 4443, 7018, 8886
amylose 8890
anthocyanins 2016, 9774
carotenoids 8895
chlorophyll 7017, 8895
esterase 6542
glycoalkaloids 902, 2853, 2855, 3737, 5205, 7028
IAA 444
lipolytic acyl hydrolase 7981
lipoxygenase 7981
manganese 2027
miscellaneous 5204, 6010–6011, 6016, 8894
nitrogen 4441
oil, fatty 7980
peroxidase 2037, 7033
phenols 443, 6020
phenylalanine ammonia lyase 9793
polyphenol oxidase 2037, 7033
protein 2020–2021, 2857, 4439–4440, 4443, 5186, 5199, 5209, 5999–6000, 6542, 7979, 7982, 8887, 8892, 9758, 9782, 9786
protein, technique 3738
rishitin 1739, 6020, 7033
starch 424, 1231, 1242, 2020–2021, 4125, 5185, 5189, 5998–6000, 7008, 7979, 8884, 9754, 9758, 9781–9784
suberin 7015
sugar 2858, 6542, 7021, 7979
tyrosine ammonia lyase 9793
chemicals, cytological effects, colchicine 3733
chemicals, general effects
CCC 6012, 7017
gibberellins 6012
growth regulators 5208
herbicides 7023
nucleic acids 7030
streptomycin 7033
thiourea 4438
chemicals, mutagenic effects
miscellaneous 2842
N-nitroso-*N*-ethylurea 4436
chimeras 2841, 3733, 6006, 6008, 8439
chromosomes, aberrations 5202, 7010
chromosomes, number 4434, 7011
climate 8884
cold, effect of 8895
cold resistance 1244, 7972, 8895
cold resistance, technique 433
colour 2016
combining ability 2840, 3743, 7970
corolla 9776
Corticium 438, 2033
cytoplasmic inheritance 2022
density of stand 4437
development, abnormal 3734, 5206
development and growth 6010–6011, 7016
diploidy 5201, 9773
Ditylenchus 3749
dormancy 4438
Empoasca 447, 3750
epistasis 3734
Erwinia 4445, 9788
flowering 2849
fungi 5182
Fusarium 434, 6542, 7027
γ rays 423, 2015, 7007, 7007–7008, 9773
genetics
calyx 9775
colour 2016
height 9766

***Solanum*, potato** *contd.*
genetics *contd.*
Heterodera 2866, 8900
meiosis 2845
Phytophthora 1249–1250
Pseudomonas 2029
quality, of edible product 2856
Synchytrium 1248
Tetranychus 445
tuber, colour 9766
tuber, shape 3735
viruses 5212, 8439, 8904
geography 7011
growth period 1231, 1247, 2031, 2862, 5184, 6021, 7001, 7018, 7661, 8892, 9767, 9769
gynecium 5206
hairy sprout 1247
haploidy 435, 2018, 2843, 5202, 6009, 7974, 9770–9771
harvesting, mechanical 1245, 8888, 8893
heat and drought resistance 5190
height 9766
heritability 7968
Heterodera 443–444, 2037, 2843, 2866, 4783, 4817, 6542, 7036–7037, 7986, 9793
physiological races 1251, 2034–2036, 2867, 3746–3748, 4447–4448, 5211, 7038, 8439, 8900
Heterodera, technique 4447, 7035
heterosis 5193, 9758
history and evolution 429, 2017, 2022, 2847, 4135, 7022, 7648, 7656, 9352, 9775
homozygosis 8439
hybridization 5203
hybridization, interspecific 414, 422, 1237, 1253, 2017, 2034, 2039, 2843, 2846, 2850, 2861, 3731, 3742, 3746, 4433–4435, 4443, 5192, 5196–5199, 5201, 6007–6008, 6026, 6542, 6997, 7000, 7013, 7032, 7969, 7971–7973, 7986, 8439, 8885, 8901, 8904, 9767–9770, 9782, 9788–9789, 9792
hybridization, interspecific, technique 3732
immunology 2023
inbreeding 5193, 8882, 9758
insects 431
internal brown spot 432
irrigation 436
leaf 4437, 7978
Leptinotarsa 446, 4178, 8901, 9794
light, effect of 2016, 2855
linkage 5195
Macrophomina 437
Macrosiphum 2868
physiological races 2038
mechanical injury 1245, 2028, 4125, 5191, 8888, 9787
mechanical injury, technique 8893
meiosis 2844–2846, 2848, 7010
modifiers 2016
multiple genes 2033, 2864, 5205
mutation 1236, 6006, 8886
mutation, induced 2842, 4436, 7007–7009
Myzus 2868, 3750
Nectria 7026–7027
nematodes 4434
Oospora 5210, 8898
pathology 430, 1246, 6066, 6611, 8519

Pectobacterium 8894
Phoma 3740–3741
photoperiodism 2837, 7024, 9769, 9772
photosynthesis 7978
Phthorimaea 3750
Phytophthora 440–441, 1249, 1739, 2494, 2850

3745, 4125, 4432, 4434, 4436, 5188–5189, 5192, 5197–5198, 6019–6020, 6550, 6999–7000, 7030, 7033, 7661, 7984, 8439, 8899, 9755, 9767, 9791–9792
physiological races 442, 1250, 2863, 3742, 3744, 5637, 7032, 7972–7973, 7985, 9789
Phytophthora, technique 2863, 6017–6018, 6542

Solanum, potato, *Phytophthora*, technique 7031

plant collections 6998, 7961
pollen 2845, 2848, 3736, 7014
pollination 6009
pollution, atmospheric 2860
polyhaploidy 7012, 7975, 8439
polyploidy 1237, 2847–2848, 2854, 4445, 5203, 6008, 6573, 7010, 7013, 8439, 9772–9773
Pseudomonas 2030, 2464, 2494, 2861
physiological races 2029
Puccinia 7034
quality, for canning 427, 6013–6014, 7626
quality, for cooking 425, 1231, 2019, 2859, 5183, 7983, 8891
quality, for nutrition 5186, 7982
quality, for processing 3303, 4442, 5185, 6580, 7019–7021, 7979, 9785
quality, for storage 718, 1240, 2026, 3739, 6611
quality, of edible product 426, 428, 1241, 2852, 2854, 2856, 2858, 6002, 7020, 9785
recombination 2015
Rhizopus 9055
salinity 7024
selection, artificial 1230
selection, artificial, technique 5998
slugs 6613
Spongospora 2031
sterility and fertility 1238, 2022, 4435, 5203, 6009, 9771, 9778
sterility, male, cytoplasmic 422
sterility, self 5207

Streptomyces 435–436, 4432, 4446
Synchytrium 1248, 2843, 7972, 8894, 8896
physiological races 2032, 4783
taxonomy 2023–2024, 3909, 4135, 7022
temperature, effect of 2030, 2849, 7026
Tetranychus 445
Thrips 3750
tissue culture 2865, 9193
tuber 3721, 3734, 5208
tuber, colour 7007, 9766
tuber, shape 1231, 2019, 3735, 8888
tuber, size 1230
variation 7008
varieties
Argentina 3730
Austria 421, 3303, 7003, 7636
Belgium 2012, 2014, 4431
Denmark 9764
France 1241
German Federal Republic 7006
India 5194
Italy 7004
Netherlands 420, 1235, 1722, 3729, 7004, 7634
Norway 1232
Switzerland 6004–6005
UK 1234, 2013, 4432, 6564, 6580, 7965, 9765
USA 7967
USSR 414, 419, 3728, 6003, 7005, 7966
varieties, classification 1239, 7977, 9777, 9786
variety trials 2010
Argentina 7962
Bulgaria 2838
Canada 418
Chile 9762
Cyprus 9761
France 1242
India 1240
Irish Republic 6597
Italy 3723, 3727, 7001
Kazakh SSR 6001
Netherlands 7963
Norway 416, 1232
Poland 5183
Rhodesia 417
Rumania 7002, 9763
Spain 2839
Sri Lanka 2011
Switzerland 6002

***Solanum*, potato** *contd.*
variety trials *contd.*
UK 1233–1234, 3726, 6613
USA 3724–3725, 4430, 7964
USSR 8884, 9759–9760
vegetative reproduction 7976
Verticillium 7029
viruses 434, 449–450, 1252–1254, 2039–2040, 2869–2870, 4432, 4434, 4450, 5182, 5187, 5189, 5212, 6019, 6021, 6024–6026, 6573, 7000, 7040, 7979, 8439, 8894, 8902, 8904, 9755, 9795
physiological races 448, 6023
viruses, technique 4449, 6022, 7039, 8903
X rays 7009, 7974–7975
yield components 1230, 1238, 2840, 7968, 7984, 8889, 9780
Somatic recombination (*see* Mitotic recombination)
***Sorbus* × *Pyrus*,** hybridization, intergeneric 5361
Sorghum
adaptability 8774
andrecium 9657
anther 299
apomixis 8771
Atherigona 5032, 8776, 8778–8781, 9666
bacteria 3644
birds 5903–5904
breeding 946, 1689
Australia 3636
Colombia 4292
India 7866, 8781
Kenya 5634
Tanzania 5634
Uganda 8780
USA 2724, 3641–3642, 3646, 3648–3649, 9651
USSR 5024
chemicals, as nutrients
iron 6907
nitrogen 292, 6906
phosphorus 6907
chemicals, as plant constituents
aminoacids 4375, 5899
auxins 9655
chlorophyll 4374
cyanogenetic compounds 303, 1144, 1733, 6906
gibberellins 9655
lysine 1918, 5030
miscellaneous 6905
nitrate reductase, technique 8773
nitrogen 6906, 8772
protein 300, 1918, 5030, 5899, 8772
riboflavin 9584
starch 88
tannin 5903–5904, 8775
thiamine 9584
wax 5029
chemicals, cytological effects, 2-chloro-4-ethylamino-6-isopropylamino-s-triazine 2726
chemicals, general effects
gibberellins 5685
herbicides 5905
insecticides 2730
chemicals, mutagenic effects
diethyl sulphate 9654
ethyl methanesulphonate 7875
miscellaneous 298, 2725
chromosomes, aberrations 2726
chromosomes, morphology 8769
Claviceps 1753
Cochliobolus, physiological races 1920
Colletotrichum 303, 305, 6909, 9662
combining ability 1910, 1918, 3639, 5642, 5893, 6904, 7871–7872, 7874
Contarinia 310, 925
density of stand 5902, 8767, 9661
development and growth 3643, 6901
diallel analysis 7871–7872
endosperm 1139, 5900
flowering 5897, 9655
fungi 9664
γ rays 5685, 5894, 7875
genetics 296
auxins 9655
cyanogenetic compounds 1144
endosperm 1139

Sorghum *contd.*
genetics *contd.*
gibberellins 9655
growth period 1914, 9655
leaf 9654
Puccinia 5031, 9665
Schizaphis 1146
Sclerospora 9663
seed, colour 5904
sterility, male 7580
viruses 2731
yield components 295
genotype × environmental interaction 8774, 9652
genotype × environmental interaction, technique 1137
germination 4373
Gloeocercospora 1753
growth period 1138, 1914, 5888, 5897, 9655
habit 9654
heat and drought resistance 4369, 4374, 6908
height 1138, 1689, 7593, 9653
heritability 1138, 1911, 3639
heterosis 1141–1142, 1911, 1918, 3643, 5028, 5891–5893, 7873, 8770
history and evolution 9659
hybrid varieties 297, 3637, 4366, 4368–4369, 5889–5891, 7605, 7866
hybridization 1137, 1912
hybridization, interspecific 295, 1140, 4371–4372, 5888, 5892, 5896, 7870, 8773, 9653
hybridization, technique 3640
inbreeding 2720–2721, 2724, 3642
leaf 5029, 9654
leaf, size 8770
linkage 9665
lodging 3317
mixtures of crops or genotypes 4366
mowing and cutting 5888
multiple genes 7580
mutation, induced 1689, 2725, 5894, 7875, 9654, 9666
pathology 301, 8517, 8777
Periconia 302
photosynthesis 2727
Puccinia 1753, 5031, 9665
Pyrilla 5906
quality, for cooking, technique 88
quality, for nutrition 1140, 1917, 1919, 2728, 5029, 5900, 7870, 9658
radiation 2725
Ramulispora 1145
physiological races 3647
Rhopalosiphum 3648
salinity 4373, 5901
Schizaphis 1146, 3648–3649, 4375, 8782, 9373
Sclerospora 304, 1753, 9663
seed 3643, 8775
seed, colour 5903–5904, 9662
selection, artificial 1142, 2720
silage 2729
sowing and planting date 9661
Sphacelotheca 306–307
physiological races 308, 3645–3646
sterility and fertility 2725
sterility, male 1689, 5028, 5891–5892, 5895, 7580, 9651, 9653
sterility, male, cytoplasmic 299, 595, 1140, 1712, 1912, 1915, 1920, 3641, 4372, 5893, 5898, 9584, 9651, 9657
succession, crop 6556
temperature, effect of 4372
Trichometasphaeria, physiological races 309
varieties
Argentina 7869
Hungary 7868
Kenya 7593
USA 1136, 1712, 3638
USSR 4370, 5887, 5890
variety trials
Australia 6902
Brazil 8767
France 5025
Hungary 5027
India 5652, 7867
Mexico 2729
Moldavian SSR 4368
Poland 4367

Sorghum *contd.*
variety trials *contd.*
Rumania 5901
UK 9551
USA 84, 293–294, 2723, 6903, 8768
USSR 4368, 6901
Venezuela 1919, 5026
vascular tissue 299
viruses 2731, 6589
weeds 5905
X rays 5897, 7875
yield components 295, 1137–1138, 1142–1143, 1910, 1913, 1916, 2720–2722, 5896, 5902, 6908, 7871–7874, 8774

Sorgo (*see Sorghum*)
Sorrel (*see Rumex*)
Southern pea (*see Vigna*)
Sowing
Linum 1292
Triticum 6764
Sowing and planting date
Allium, onion 9215
Arachis 3295
Avena 4267, 6670
Brassica, cauliflower 1548
Brassica, mustard 5306
Brassica, rape 8093
Cannabis 8025
cereals 3369
Corchorus 6063
Glycine 4066, 5580–5582, 7485
Gossypium 9820
Hordeum 3369, 3626, 4340, 6670
Lactuca 743, 7372
Oryza 313, 5927, 6910
Phaseolus 3215, 6439, 9277
Pisum 2390, 3248, 6479–6480, 7513
Sorghum 9661
Triticum 998–999, 1014, 1032, 1034–1036, 2589, 4867
Vicia, broad bean 9266
Zea, maize 247, 3293, 3596, 9603
Sowing, technique
cereals 3364
pulses 3364
Soya bean (*see Glycine*)
Space flight, *Hordeum* 268
Spacing (*see* Density of stand)
Spartium, chromosomes, number 383
Sphacelotheca
chemicals, as plant constituents
aminoacids 308
galactose 3645
glyoxalic acid 3645
Sorghum 306–307
physiological races 308, 3645–3646
Zea, maize 4179, 7661
Sphaerotheca
Cucumis, cucumber 1551, 7416
Cucumis, melon 1551
Ribes, black currant 6184, 6255–6256, 7224, 9038, 9044
Ribes, gooseberry 3949, 5406, 6185, 6255, 7225, 8191, 9156
Rubus, raspberry 4149, 7222, 7294
Spikelets
Aegilops 2535
Avena 4267
Oryza 5104
Poa 2763
Triticum 2535
Spikelets, colour, *Oryza* 3656, 5100, 9669
Spikelets, number, *Triticum* 4839
Spinach (*see Spinacia*)
Spinacia
bolting 4129
breeding, Netherlands 4673–4674
chemicals, as nutrients, nitrogen 10089
chemicals, as plant constituents
carotenoids 9226
nitrate 10088–10089
nitrite 10089
oxalic acid 9225
chemicals, fertility and sex, effects, nitrogen 3975
chemicals, general effects, ozone 5499
development and growth 6327

Spinacia *contd.*
genetics
sterility, male 3974
sterility, male, cytoplasmic 7399
growth period 4129
leaf 10088
linkage 6327
Peronospora 6327
pollution, atmospheric 5499
quality, for canning 6373
quality, of edible product 7371
sex 3975, 8280
sterility, male 3974
sterility, male, cytoplasmic 7399
variety trials
Poland 2315
UK 2293–2294
USA 740, 6373
viruses 4675, 6327
Spines
Citrus 3037
Solanum 9025
Spiral habit, crop plants 5625
Spodoptera, *Zea,* maize 1102
Spongospora, *Solanum,* potato 2031
Sporobolus, variety trials, USA 2784
Spring and winter habit
crop plants 4170
Hordeum 1891, 1897, 3626
Secale × *Triticum* 1770
Triticum 998–999, 1784, 2536, 2563, 2569, 2581, 2589, 3349, 3503, 4211, 4240, 4876, 5703, 5714, 9414
Sprouting broccoli (*see Brassica,* sprouting broccoli)
Sprouting in the ear (*see* Dormancy)
Spruce (*see Picea*)
Spur variants
Malus 1401, 3853, 4559
Pyrus 3853
Squash (*see Cucurbita*)
Stagonospora (*see also Leptosphaeria*)
Stamen (*see* Andrecium)
Statistics 868, 872, 876, 7529
crop plants 2492
Hordeum 1115, 9617
Nicotiana 8068
Zea, maize 3573
Stem
Agropyron 8830
Avena 6783
Corchorus 6062
Glycine 5577
Hordeum 5850
Linum 6054
Malus 4560
Nicotiana 2104
Oryza 5919, 7888, 8789
Pisum 7234
Prunus, apricot 3017
Prunus, cherry 3017
Prunus, peach 3017
Prunus, plum 3017
Quercus 3121
Saccharum 6071
Salix 8251
Secale 3551
Zea, maize 1095–1096
Stem, anatomy
Brassica 10083
Lotus 5174
Secale 5801
Triticum 4892, 7739, 9495
Stem, colour
Brassica, oil crops 9001
Desmodium 8875
Stem, number, *Trifolium,* red clover 8856
Stem, size, *Brassica,* cabbage 8276
Stemphylium (*see also Pleospora*)
Capsicum 5333
Medicago 8851
Stemphylium, **technique,** *Daucus* 6346
Stenotaphrum, viruses 1975
Stereum, *Prunus,* plum 2211
Sterility and fertility 4110, 6530, 7555
Aegilops 190
Aegilops × *Triticum* 1024
Agropyron × *Triticum* 3692
Amaranthus 800
Anacardium 10054
Arachis 2166, 7184
Asimina 8238
Avena 1047

Sterility and fertility *contd.*
Beta 6097
Beta, sugar beet 9858
Betula 4636
Brassica 6572, 9047, 9220–9221
Brassica, Brussels sprouts 3970–3971, 7393
Brassica, cabbage 4669, 6365, 7393, 7397, 9222
Brassica, cauliflower 8434
Brassica, kohl rabi 7393, 8424
Brassica, oil crops 5303, 7165
Brassica × *Raphanus* 7392
Brassica, turnip × *Raphanus* 6572
Bromus 6951
Cajanus 1640
Cannabis 1296
Capsicum 3848, 7200, 9019
Carthamus 9012
Cicer 2394
Citrullus 4683, 6384–6385, 8290
Coffea 4499
Cola 6139
crop plants 1731, 7651
Cucurbita 755
Desmodium 410
Digitaria 6957
Fagopyrum 1170, 2756, 5933
Festuca 9704
Fragaria 646, 7302
Gossypium 1269, 7064, 7993, 9804
Helianthus, sunflower 555, 5315, 6157
Hordeum 271, 1121, 1893, 2505, 2700, 3621, 3625, 5003, 5860, 6880, 8747, 9390
Ipomoea 7582
Lathyrus 5175
Lycopersicon 1565, 3183, 3186, 3361, 4013, 5530–5531, 7430, 8306, 9251
Malus 603, 2191, 3005, 3858, 6201, 9067
Matricaria 577
Medicago 2798, 4415, 5965, 7935, 8843, 8848, 9726
Melilotus 4426
Musa 1452
Nicotiana 1338, 2107, 2927, 3361, 5269, 6120, 7137, 8058, 8974
Ornithopus 2831
Oryza 2750, 5079, 5086, 5104, 5116, 5916, 6926
Pinus 1479, 1485, 1518
Pisum 2385
Populus 5457
Primula 4108, 6526
Prunus, almond 3118, 9096
Prunus, apricot 615, 9096
Prunus, apricot × *Prunus,* plum 8166
Prunus, cherry 2213, 7269, 7273, 8173, 8176, 9934, 9981
Prunus, peach 9096
Prunus, plum 1412, 2209, 9106
Pyrus 3872, 3875, 9963
Raphanus 3960
Ribes, black currant 3054, 3057
Ribes, red currant 3054
Secale 3533, 3541, 4185, 4269, 4919, 5799, 9390, 9441
Secale × *Triticum* 2541, 2549, 3427, 3435, 4216, 6704, 6706, 6708, 6710, 7706, 7708, 7785, 8584, 9419, 9421, 9445
Solanum, egg plant 796, 798
Solanum, potato 1238, 2022, 4435, 5203, 6009, 9771, 9778
Sorghum 2725
Taraxacum 5542
Theobroma 5289, 6138
Trifolium 2811, 3705
Trifolium, minor species 5980
Trifolium, red clover 400
Trifolium, white clover 2816
Triticum 148, 1024, 1767, 2505, 2536, 4185, 4841, 4850, 4868, 9441, 9454
Vaccinium 2238, 4605
Valeriana 3851
Vicia, broad bean 3204–3205
Vitis 660, 663–664, 3103
Zea, maize 1084, 2650, 4960, 6820, 9589
Zea, popcorn 4337, 4991
Sterility, female
Beta, sugar beet 510, 5262
Citrus, orange 2222
Populus 9187
Sterility, female *contd.*
Prunus, cherry 5375
Sterility, male
Aegilops 3334
Allium, garlic 3149
Allium, leek 732, 3963
Allium, minor species 3149
Allium, onion 2306, 4663, 7385, 8268, 9212, 10078
Aloe 6064
Beta, beetroot 3143
Beta, sugar beet 2907, 3781, 3792, 6086, 6105, 7112, 7119, 8046, 8957–8958, 8961, 9874
Brassica, rape 2136
Bromus 9688
Capsicum 574–575, 7201–7202, 8119, 9019
crop plants 932, 1730, 3357, 4808, 9379
Cucumis, cucumber 746, 2323
Cucurbita 746, 8292
cucurbits 8486, 9229
Dactylis 9688
Daucus 4656, 6345, 8444, 9212, 10073
Fragaria 4553
Glycine 1607, 5576
Gossypium 460, 2048, 7088, 8910
Helianthus, Jerusalem artichoke × *Helianthus,* sunflower 6160
Helianthus, sunflower 2982–2983, 4513, 5314, 7173–7174, 8096, 8101, 9008
Hordeum 1121, 2507, 3624, 5861, 6584
Lathyrus 6993, 8879
Linum 2075, 7097, 8013
Lolium 2770
Lotus 3716
Lycopersicon 1576, 2335, 3181, 4005, 4007, 4012, 4706, 6413, 8305, 9243, 10109
Malus 4553
Manihot 3800
Medicago 391, 5151, 5964, 6968, 7932, 7934, 8846–8847, 9731
Nicotiana 2108, 3813
Onobrychis 8865
Oryza 1935, 9672
Pennisetum 1134, 1909, 8766
Phaseolus 10138
Phleum 2767, 9688
Prunus, peach 8181
Prunus, plum 2208
Ribes, gooseberry 2918
Rubus, raspberry 4602–4603
Secale 211, 1055
Secale × *Triticum* 8591
Solanum, egg plant 797
Sorghum 1689, 5028, 5891–5892, 5895, 7580, 9651, 9653
Spinacia 3974
Triticum 967, 1001, 1003–1004, 2507, 2538, 2557, 2575, 3306, 3357, 3441, 3458, 5749, 6724, 8420, 8541, 8584, 8591, 8593
vegetable crops 716
Vitis 1463, 3105, 8217
Zea, maize 1083, 1860, 2493, 4319, 4959, 6583, 6798, 6817, 7806
Sterility, male, cytoplasmic 4774
Aegilops 9449
Agropyron 8829
Allium, onion 717, 728, 2309, 10178
Beta, mangel × *Beta,* sugar beet 4471
Beta, sugar beet 500, 511, 1322, 4477–4478, 5255, 6096, 8959–8960, 9873, 9875, 9877–9878
Brassica, mustard × *Brassica,* sprouting broccoli 734
Capsicum 8117, 9022
crop plants 931, 2489, 8507
Daucus 717, 722–723, 4657, 6344, 7380
Gossypium 8466
Helianthus, sunflower 3837, 6157
Hordeum 6861, 8742
Lathyrus 8879
Linum 8932
Medicago 1984, 3702, 4414, 5151
Nicotiana 3812, 3816, 4489, 5268, 5272, 6119, 8059
Oryza 3662–3663, 5085, 5087, 5907, 7886
Pennisetum 288
Pisum 10128
Raphanus 725
Sterility, male, cytoplasmic *contd*
Secale 1825, 3547–3548, 3550, 3552, 7789, 8652–8653, 9449, 9535
Secale × *Triticum* 3423
Solanum, potato 422
Sorghum 299, 595, 1140, 1712, 1912, 1915, 1920, 3641, 4372, 5893, 5898, 9584, 9651, 9657
Spinacia 7399
Thymus 8369
Triticum 145, 152, 982, 985, 1010, 1782, 2577, 3461, 3468, 4230, 4864–4865, 4867, 4869, 4902, 5084, 5741, 5744, 6742, 7740, 8538, 8543, 8582, 9449, 9457, 9464, 10178
Zea, maize 249, 1099, 1857–1858, 1864, 1878, 1880, 1920, 2493, 2646, 2660, 2665, 2667, 3584, 3586, 3588, 3603, 3605, 4326, 4326–4328, 4331, 4982, 4984, 5826, 5829, 5832, 6823–6824, 6826, 7807, 7821, 8707, 8711, 8721, 8724, 9553, 9578, 9584, 9588, 10178
Zea, popcorn 4336
Zea, sweet corn 4336
Sterility, male, technique, *Triticum* 4866
Sterility, self 3257, 3290
Allium, onion 3147
Beta, sugar beet 502, 8961
Brassica, Brussels sprouts 735, 739, 3158, 9049, 9206
Brassica, cabbage 735, 6364, 6366, 8277
Bromus 1961, 9687
Carthamus 9914
Cichorium, chicory 9195
Citrus 9143
Corylus 7332
crop plants 9338
Cydonia 9056
Dactylis 9687
Fragaria 3062
Helianthus, sunflower 8097
Juglans 1469
Lilium 6527
Lycopersicon 1571–1572, 4707–4708, 7440, 8309, 9251
Malus 9950
Medicago 390, 1196, 1987, 5157
Nicotiana 8990
Olea 1372
Papaver 4136
Petunia 4777
Phleum 9687
Prunus, almond 3118, 9130
Prunus, apricot 7260
Prunus, cherry 7260
Prunus, peach 7260, 9130
Prunus, plum 7260, 8168
Pyrus 4568
Ribes, black currant 5405, 9154–9155
Secale 4275, 6794, 7787
Solanum, potato 5207
Trifolium, red clover 1201, 2813, 8459, 8857
Triticum 1771
Vitis 3105
Stigma (*see* Gynecium)
Stigmina, Prunus, peach 3890
Stipa
embryology 2786
flower 2786
taxonomy 2786
Stock (*see* Grafting; Rootstock)

Stomata
Beta, sugar beet 2095
Bromus 9699
Citrullus 8291
Gossypium 463
Lolium 372
Musa 1454
Nicotiana 2115
Prunus, cherry 7275
Triticum 1009, 3462
Zea, maize 1098
Stomata, number
crop plants 8504
Vitis 7319
Zea, maize 6829
Zea, sweet corn 6829
Stomata, size, *Vitis* 7319
Stone fruits
breeding
France 1407

Stone fruits *contd.*
breeding *contd.*
USSR 6211
climate 4573
dormancy 6194
germination 6194
pathogy 9097
Phytophthora 3879
Pseudomonas, physiological races 6212
quality, of edible product 4573
rootstock 1407
taxonomy 2202
Storage quality (*see* Quality, for storage)
Strawberry (*see Fragaria*)
Streptomyces, *Solanum,* potato 435–436, 4432, 4446
Striga, *Pennisetum* 1135
Style (*see* Gynecium; Heterostyly)
Stylosanthes
plant introduction 5941, 8871
Rhizobium, physiological races 9751
Substitution lines
Aegilops 1027
Triticum 154, 979, 1027
Subterranean clover (*see Trifolium,* subterranean clover)
Succession, crop
Avena 2512
Glycine 2491, 4066
Helianthus, sunflower 5312
Hordeum 2491, 2512
Phaseolus 9277
Sorghum 6556
Triticum 2491, 2512, 9486
Zea, maize 6555
Sudden wilting, *Elaeis* 4518
Sugar beet (*see Beta,* sugar beet)

Sugar cane (*see Saccharum*)
Sunflower (*see Helianthus,* sunflower)
Sunn hemp (*see Crotalaria*)
Supernumerary chromosomes (*see* Chromosomes, accessory)
Supersonic waves (*see* Ultrasonic waves)
Swede (*see Brassica,* swede)
Sweet clover (*see Melilotus*)
Sweet corn (*see Zea,* sweet corn)
Sweet potato (*see Ipomoea*)
Sweet sorghum (*see Sorghum*)
Swietenia, chromosomes, number 6312
Symbiosis
Glycine 2380
Trifolium, white clover 1204
Synapsis (*see* Meiosis)
Synchytrium
Solanum, potato 1248, 2843, 7972, 8894, 8896
physiological races 2032, 4783
Syndesis (*see* Meiosis)
Synthetic varieties 1652
Beta, sugar beet 512, 2090
Brassica, Brussels sprouts 3972
crop plants 8485
Dactylis 2765, 6935
Festuca 1965
Festuca × *Lolium* 8458
Helianthus, sunflower 8097, 9005
Hordeum 4342
Lolium 6608
Medicago 2794–2796, 3698, 5940, 5963, 7929, 9720–9721, 9723
Phalaris 3687
Zea, maize 1829, 1874, 4976, 5808, 7579, 7605
Systematics (*see* Taxonomy)
Systeria, *Sesamum* 2468
Taeniatherum × ***Hordeum,*** hybridization, intergeneric 2691
Tangerine (*see Citrus,* tangerine)
Taphrina, *Prunus,* peach 6228, 6233
Tapioca (*see Manihot*)
Taraxacum
apomixis 5542, 9028, 9028
endosperm 5542
history and evolution 6428
hybridization, interspecific 5542
polyembryony and twinning 5542
Taraxacum contd.
sterility and fertility 5542
Taro (*see Colocasia*)
Taxonomy 46, 899–900, 1662, 1684, 8372, 8417–8418, 9315, 9348, 9350
Abies 5476
Achillea 6177
Aegilops 2609, 4246, 6781, 7675
Agave 486
Agrobacterium 2788
Agropyron 2781, 5954, 7675, 8831
Agrostis 7905, 9697
Allium 9214
Allium, chives 1543
Allium, minor species 3150, 3964
Aloe 487, 3774
Alopecurus 2785
Amelanchier 4614
Apium 3980
Arachis 1378, 4526
Archangelica 9926
Avena 1048, 1820, 3531, 4917
Betula 686, 1507, 3124, 3128, 7657
Brassica 1547
Bromus 7905, 7914
Calamagrostis 8834
Capsicum 4532
Chloris 3694, 7922
Cicer 6963
Citrullus 10094
Coffea 540, 2959, 5285
Crambe 9922
crop plants 3150, 9347
Cucurbita 4686
Danthonia 5143
Dendrocalamus 6962
peroxidase 6962
Digitaria 8828
Dioscorea 515
Diospyros 654
Dolichos 804, 8836
Echinochloa 2719
Eleusine 5022
Elymus 7675
Enteropogon 7922
Eragrostis 3691
Erythroxylon 2994
Eucalyptus 1509, 2275–2276, 7348
Euchlaena 7823
Festuca 373, 1185, 1187, 1966, 2775, 4409, 7655, 7905, 7920, 8824
Ficus 3897
forest trees 3937
Glycine 1610, 6463
Gossypium 6046, 8000
grasses 361
Heterodera 8439
Hibiscus 5234
Hippophae 6272–6273
Hordeum 8532
Ipomoea 7045
Juglans 10048
Larix 1530, 2271, 10064
Larix × *Pseudotsuga* 2271
leguminous forage crops 8836
Lens 6963
Lolium 8438
Lotus 1224–1225, 5174, 6963
Lupinus 407, 8870
Lycopersicon 5523, 6412
Maclurolyra 9713
Mahonia 10024
Malus 2193, 3007, 3864–3865, 9035
Matricaria 577
Medicago 388, 1989, 6963
Musa 7306
Nectria 1528
Nicotiana 6125, 7649
Onobrychis 1214, 6963, 9746
Oryza 6911–6912
Oryzopsis 2786
Oxycoccus 1456
palms 9146
Panicum 5880, 6891
Papaver 9897
Passiflora 655
Persea 10000
Phaseolus 804, 4726, 5546
Physalis 1455
Picea 2271
Picea × *Tsuga* 2271
Pinus 7355, 7358
Pisum 6963
Taxonomy *contd.*
Poa 1954–1955, 2763, 6944–6945, 7905, 7908
Populus 6314
Prunus, apricot 8162
Prunus, plum 9109
pulses 5546, 8318
Pyrus 5363, 9036
Quercus 5454, 7340, 8247, 10056
Rhizobium 2788, 5548
Ribes 1436
Rubus 3047
Rubus, blackberry 642, 2236
Rubus, raspberry 2235, 7295
Salix 1512–1513, 9040
Secale 3545, 7675, 7780, 8532
Solanum 10023
Solanum, potato 2023–2024, 3909, 4135, 7022
Stipa 2786
stone fruits 2202
Thea 6132
Thespesia 2084
Thymus 4091, 7523
Tilia 2283, 5465
Trapa 7335
Trifolium 1198, 1991, 3706, 5164, 6963, 9738
Trifolium, subterranean clover 5169
Tripsacum 7832
Triticum 1028–1029, 2565, 3448, 3486–3488, 4246, 5769, 6761, 6781, 7675, 8532, 8601
Ulmus 687, 1491, 2272
Valerianella 7450
Verticillium 7029
Vicia, broad bean 4029, 5554, 5556–5557
Vicia, vetch 1211, 5985, 6963
Vigna 804
Volvariella 5601
Yucca 486
Zea, maize 7823, 9602
Zingiber 7204
Taxonomy, technique 9349
cereals 9394
Lolium 9702
Tea (*see Thea*)
Tectona, breeding, Thailand 1481
Temperature, effect of
Abies 699
Allium, onion 2448, 2450
Avena 1817
Beta, sugar beet 509, 8965
Betula 3127
Brassica, cabbage 3155
Bromus 9698
Carthamus 2987, 9915
Ceratocystis 1508
cereals 5684
Citrus, mandarin 7285
crop plants 8503
Cucumis, cucumber 6390
Cucumis, melon 3982
Fagopyrum 1170
Glycine 4058, 6458, 7485, 9289
Helianthus, sunflower 6161
Hibiscus 8031
Hordeum 1895, 2707, 3624
Humulus 7227
Lactuca 23, 7402
Linum 934
Lycopersicon 786, 1571, 3184, 3186, 3191, 10116
Malus 8140, 9071, 9076, 9083
Medicago 1194, 8843, 8847
Nicotiana 532, 557, 3808, 3821
Oryza 4378, 5072, 5106
Papaver 934
Phaseolus 7466
Pisum 9209
Prunus, almond × *Prunus,* peach 8182
Prunus, apricot 4574
Prunus, cherry 4146
Puccinia 5318
Pyrus 3873
Rhizobium 4058, 7949
Secale 2506, 2620, 8651
sodium chloride, *Carthamus* 1370
Solanum, potato 2030, 2849, 7026
Sorghum 4372
Triticum 2506, 2563, 2566, 2576, 2596, 3517, 4861, 5740, 6764, 9454
Vicia, broad bean 19

Temperature, effect of *contd.*
Vigna 4732
Vitis 2256–2258, 6286, 9178, 10043
Zea, maize 1846, 1878, 3557, 6843, 8457
Zea, popcorn 4336
Zea, sweet corn 4336
Teosinte (*see Euchlaena*)

Teratology (*see* Development, abnormal)
Testa (*see* Seed)
Tetragonolobus, chromosomes, number 383
Tetranychus
Fragaria 5414–5415
Glycine 4067
Lycopersicon 794
Solanum, potato 445
Thea
breeding
India 3822
Kenya 6131
Uganda 5281
Calonectria 8073
chemicals, as nutrients
miscellaneous 1343
potassium 6131
chemicals, as plant constituents, miscellaneous 4498, 8075
chromosomes, morphology 3822
density of stand 1342
flower 6132
geographical races 8074
hairs 8075
heat and drought resistance 3823, 8073
hybridization, interspecific 2955, 2955, 3823
irrigation 1342–1344
leaf 6132
leaf, size 538
Oligonychus 3823
Phomopsis 8073
plant collections 2120
Poria 8073
Pratylenchus 8073
quality, of edible product 4498, 8075
taxonomy 6132
varieties, India 2121
variety trials, India 4497
Xyleborus 5282, 8073
Themeda
aneuploidy 5958
apomixis 5958
chromosomes, aberrations 1952
chromosomes, number 1952
history and evolution 1952
meiosis 5958
polyploidy 1952, 5958
Theobroma
breeding
Nigeria 8085
Trinidad and Tobago 5288
Venezuela 2467
Calonectria 9895
Ceratocystis 2467, 5290–5291, 9894
chemicals, as plant constituents
chlorogenic acid 3298
phenols 5291
tannin 4503
chromosomes, morphology 2965
Corticium 3298
development, abnormal 5630
development and growth 6142
Distantiella 6140
ecology 2966
embryology 2964
Forcipomyia 542
fruit 2967
fruit, anatomy 4503
fruit, number 4502
genetics
Ceratocystis 5290
Phytophthora 4500
seed, colour 1347, 2963
sterility and fertility 5289
growth period 7156
haploidy 6141, 7157
heterosis 1348, 4502
hybridization 4501
hybridization, interspecific 2964, 6140, 7157
hybridization, technique 6143
land races 1348
leaf 2966
Theobroma *contd.*
Marasmius 2467, 2473, 4500, 5288, 7156
Phytophthora 543, 651, 2472, 2968, 3298, 4500, 4503–4504, 5292, 6138, 6140, 6144, 8082
Phytophthora, technique 8086
plant collections 4500
pollination 542, 1349, 2967, 3298
pollination, technique 6143
polyembryony and twinning 2123, 6141
quality, of edible product 6138
Sahlbergella 6140
seed, colour 1347, 2963
seed, shape 7157
seed, size 7156
sterility and fertility 5289, 6138
variety trials, Nigeria 8082
viruses 4504, 6138, 6140
water balance 2966
Theobroma* × *Herrania, hybridization, intergeneric 7157
Therioaphis
Medicago 9720
Trifolium, red clover 8860
Thespesia
chromosomes, morphology 2051
leaf, anatomy 2084
taxonomy 2084
Thielaviopsis
Gossypium 2880
Nicotiana 2940, 5270, 6112, 6128
Thorns (*see* Spines)
Thrips
Gossypium 3767
Solanum, potato 3750
Thuja
chimeras 6326
habit 1533
haploidy 706, 6326
height 1533
mutation 1533, 6326
mutation, induced 706
X rays 706
Thujopsis
chemicals, as plant constituents, peroxidase 3345–3346, 5483
variation 5483
Thyme (*see Thymus*)
Thymus
chemicals, as plant constituents, oil, essential 856, 1648, 7522
genetics, sterility, male, cytoplasmic 8369
sterility, male, cytoplasmic 8369
taxonomy 4091, 7523
Tilia
cell division 7349
endosperm 7349
history and evolution 2283
hybridization 3134
taxonomy 2283, 5465
Tillering
Lolium 5136
Oryza 328, 331, 8789
Triticum 1777, 4870
Zea, maize 6828, 7818
Tilletia
Triticum 916, 973, 1805, 7691, 7761, 8481, 9511
physiological races 1037, 6769
Timber quality (*see* Quality, of timber)
Timothy (*see Phleum*)
Tip burn, *Lactuca* 6544
Tissue culture 3288, 4114, 5627, 8410, 9339
Acer 4109
Arabidopsis 3344
Asparagus 7233, 9218
Brassica, cauliflower 3969
Brassica, kale 6372
Citrus 5383
crop plants 1677, 2405
Daucus 10072
Ipomoea 4451
Medicago 1986
Nicotiana 528, 889, 1332–1333, 3814, 4496, 6115, 6120, 7135, 7137, 7139–7141, 8064–8065, 8433, 9332, 9891
Petunia 4113
Populus 681
Putranjiva 4776
Tissue culture *contd.*
Ranunculus 40
Solanum, potato 2865, 9193
Triticum 3344
Vitis 5430
Zea, maize 2643, 3344
Tissue culture, technique, *Lolium* 6955
Tobacco (*see Nicotiana*)
Tolyposporium, *Pennisetum* 1753
Tomato (*see Lycopersicon*)
Toona, chromosomes, number 6312
Toria (*see Brassica,* oil crops)
Townsville lucerne (*see Stylosanthes*)
Toxic soils
Anthoxanthum 379
Glycine 3236
Oryza 5092, 5113, 5907
Prunus, cherry 3027
Tradescantia
chemicals, cytological effects, methylmercury dicyandiamide 21
chemicals, mutagenic effects, sulphur dioxide 8408
chromosomes, aberrations 21, 8408
mutation, induced 17
polyploidy 2452
radiation 17, 2452
Transduction
Lycopersicon 3274
Rhizobium 385
Transformation
crop plants 4805
Nicotiana 2106
Petunia 4755
Translocation
Agropyron × *Triticum* 8436
Capsicum 9023
Citrullus 4683
crop plants 2488
Hordeum 271, 1896, 2700, 5003
Lycopersicon 7435
Pennisetum 287
Pisum 4773
Secale 1053, 2621, 3540, 7784, 8649
Secale × *Triticum* 1811
Trigonella 8876
Triticum 120, 2559
Zea, maize 232, 1854–1855, 2637–2639, 4942, 8698, 9559
Transpiration (*see* Water balance)
Transporting quality (*see* Mechanical injury)
Trapa, taxonomy 7335
Trialeurodes, Lycopersicon 1584
Tribolium, *Triticum* 2606
Trichloris, heritability 7921
Trichometasphaeria
Sorghum, physiological races 309
Zea, maize 248, 1877, 2631, 3606, 4983, 6844, 9608
physiological races 251, 4325
Zea, sweet corn 2676
Trichoplusia, *Brassica,* cabbage 6369
Trichosanthes
meiosis 767
polyploidy 767
Tridens, hybridization, interspecific 5139
Trifolium
breeding, White Russian SSR 8804
chemicals, as plant constituents
cyanogenetic compounds 2815
miscellaneous 6975
chromosomes, morphology 2823
chromosomes, number 892, 2811, 2823, 8459
development and growth 5163
germination 5161–5162
history and evolution 3706
hybridization, interspecific 2811, 3705, 7942
Kabatiella 8811
leaf, anatomy 5164
persistence 5163
pollen 7942, 9738
polyploidy 6975
Rhizobium 398
physiological races 6976
seed 5161
sterility and fertility 2811, 3705
taxonomy 1198, 1991, 3706, 5164, 6963, 9738
variety trials, Italy 7601

***Trifolium*, Alsike clover**
genotype × environmental interaction 7948
polyploidy 1199, 5973
Sclerotinia 5973
variety trials
Canada 5168
Norway 7944
***Trifolium*, crimson clover**
chemicals, as plant constituents, anthocyanins 402
colour 402
genetics, colour 402
Kabatiella 6977
variety trials, Hungary 5144
***Trifolium*, minor species**
breeding
Canada 2821
Italy 1206
chemicals, as plant constituents, nitrogen 6984
chromosomes, morphology 1997, 2822
chromosomes, number 1997, 2822
combining ability 5979
development and growth 8862
flowering 1999
genetics 5980
heritability 9741
history and evolution 2822, 9429
hybridization, interspecific 5980, 9429
inbreeding 3711
mowing and cutting 8862
multiple genes 2824
perennial habit 9429
polyploidy 9429
Rhizobium 403, 2824
salinity 6984
selection, artificial 1999
soil sickness 1207
sterility and fertility 5980
variation 1998
yield components 3711, 9741
***Trifolium*, minor species × *Trifolium*, red clover**
chromosomes, aberrations 1197
embryo culture 1197
hybridization, interspecific 1197
***Trifolium*, red clover 3707**
Acyrthosiphon 8860
breeding
Rumania 5166
Sweden 4123
chemicals, as nutrients
nitrogen 7906
sulphur 7906
chemicals, as plant constituents
esterase 8858
nitrogen 7906
protein 7906
sulphur 7906
chemicals, cytological effects, colchicine 7945–7946
chemicals, fertility and sex, effects, ethanol 2813
clines 7943
cold resistance 4420, 5975, 5977
density of stand 9739
development and growth 8855–8856
diallel analysis 5165
Ditylenchus 4159
ecotypes 1203
flowering 5975
genetics
Kabatiella 8859
sterility, self 8857
viruses 1995
germination 8855
growth period 5165
habit 5165, 7943
heat and drought resistance 5976
heritability 5165
heterosis 4420
hybridization, interspecific 1992
inbreeding 8857
inflorescence 8854
Kabatiella 6977, 8859
meiosis 4421
mixtures of crops or genotypes 6981, 9739
Nearctaphis 8860
persistence 1200, 7947
plant collections 7943
pollen 400
Trifolium*, red clover *contd.
pollination, technique 2813
polymorphism 8858
polyploidy 400, 1199–1200, 1203, 1992–1993, 2812, 4123, 4421, 5166, 5973–5974, 6933, 7906, 7946, 8854–8856, 9739
polyploidy, technique 7945
Rhizobium, physiological races 6964
Sclerotinia 1200, 4159, 5973
seed 8854
stem, number 8856
sterility and fertility 400
sterility, self 1201, 2813, 8459, 8857
Therioaphis 8860
variation 1202, 1994
varieties
Australia 3695
Austria 399
Netherlands 1719
Sweden 8853
Switzerland 5126–5127, 6933, 6937
varieties, classification 2758
variety trials
Australia 6979
Denmark 6978
Norway 7944
Rumania 6980
Switzerland 8852
USA 3676
viruses 1995, 1995
yield components 2812, 5165, 8854
***Trifolium*, red clover × *Trifolium*, minor species, hybridization, interspecific 1197**
***Trifolium*, subterranean clover**
chemicals, as nutrients, miscellaneous 4423
chemicals, as plant constituents
flavonoids 2820
protein 5169
dormancy 8861
germination 8861
reproduction 2819
Rhizobium, physiological races 7949
seed 2819
taxonomy 5169
variety trials
Australia 1205
New Zealand 1996
waterlogging 4423
***Trifolium*, white clover**
breeding
Irish Republic 5167
Lithuanian SSR 2814
USA 9740
White Russian SSR 3675
chemicals, as nutrients, nitrogen 6609
chemicals, as plant constituents, cyanogenetic compounds 1733
chemicals, general effects, nitrogen 5167
competition 2817, 5978
Ditylenchus 2818, 3710
fertilization, sexual 2816
flower 401
genetics, cyanogenetic compounds 2815
genome analysis 4419
grazing 2817
hybridization, interspecific 2816, 4419
meiosis 401
Meloidogyne 9740
mixtures of crops or genotypes 2817
polymorphism 2409
polyploidy 1204
Rhizobium 1204, 3709
physiological races 3708, 6964, 6983
Sclerotinia 6541
selection, artificial 2409
sterility and fertility 2816
symbiosis 1204
varieties, classification 2758, 6982
variety trials
UK 6600
USA 3676
viruses, technique 4422
Wiseana 5978
Trigonella
aneuploidy 8878
hybridization, interspecific 8876
translocation 8876
Tripsacum
chemicals, as plant constituents, fatty acids 7832
Tripsacum contd.
history and evolution 1883
polyploidy 1883
taxonomy 7832
***Tripsacum* × *Euchlaena*, hybridization, intergeneric 6815**
***Tripsacum* × *Zea*, maize**
androgenesis 8683
apomixis 8683
history and evolution 6815
hybridization, intergeneric 242, 2640, 2654, 6815, 8682–8684
meiosis 2654
pollen 6815
polyploidy 8682
Triticum
α rays 7723
adaptability 117, 3402, 7698, 7700
aging of seeds 4226
agronomy 1791, 2587
altitude 7733
anatomy 1008, 1794, 1806, 7741
andrecium 4875, 5746
aneuploidy 140–142, 1024, 1775, 2557, 2559, 3425, 3452, 4860, 6741, 7727, 7731
Anguina 2605, 7771
anther 5710
anther culture 3344
apomixis 8564, 8567
asymmetry 87
asynapsis 4861
awns 977, 2573, 4234, 6731, 8631
β rays 2551, 5670
birds 4198
breeding 94, 3398, 7677, 9415
Armenian SSR 4194
Australia 96, 6778
Belgium 6547
Bulgaria 7744
Canada 3415
Denmark 9355
Hungary 4192
India 955, 4193, 4795, 5696, 6678
Iran 6677
Israel 6679
Italy 3402, 4829, 5646, 7596, 7678
Kazakh SSR 3371, 5694
Mexico 5083, 5678, 7680
Moldavian SSR 5695, 9402
Poland 959–960
Portugal 3394, 3396
Rumania 8537
Sweden 3325, 4117, 7683
Switzerland 3511
Tajik SSR 3397
Ukrainian SSR 911
USA 93, 957, 2518, 5707, 7679
USSR 2515, 3399–3401, 4190, 6675, 8527, 9399
White Russian SSR 4826
Yugoslavia 2583, 4825
breeding, technique 956, 4827
Calandra 5787
Calonectria 4256, 8626
cell division 3454, 3503, 5732, 5738
centres of origin 4863, 7757
Cephus 7662
Cercosporella 1798, 3389
chemicals, as nutrients
ammonium chloride 6765
ammonium nitrate 6765
ammonium sulphate 6765
miscellaneous 998–999, 4231, 8562, 9484
nitrogen 104, 163–164, 167, 1034, 1777, 2581–2582, 2588, 3483, 4872, 5686, 5702, 5770, 6735, 6738, 6762, 8604, 9406, 9485–9487
phosphorus 5686, 5770–5771, 6738
potassium 6738
chemicals, as plant constituents
alcohol dehydrogenase 1763
aminoacids 1018 1762
aminoacids 1783, 3384, 3485, 7752, 8531, 8611, 9443
amylase 150, 3309, 6703

Triticum contd.
chemicals, as plant constituents *contd.*
carbohydrates 4241, 8590, 9466
chlorophyll 950, 1044, 4857, 5735
p-diphenol oxidase 9506
enzymes 1000, 1762, 4837, 5768, 7162, 7769, 8611
esterase 8554
gibberellins 962, 6741
gliadin 996, 996, 6739–6740, 6745, 9469
2-*O*-glucosyl-2,4-dihydroxy-7-methoxy-1,4-benzoxazin-3-one 1807
glutathione 159–160
gluten 3483, 8540, 9474
glutenin 4886, 5760
growth regulators 3496
histone 4219
IAA oxidase 8618
lysine 154, 5070, 5686, 7743, 8598
magnesium 4888
malate dehydrogenase 8554
miscellaneous 1031
nitrate reductase 8592, 9487
nitrogen 3457, 4873, 5074, 5761, 7758
nitrogen, technique 8594
nucleic acids 143, 1762, 3349, 3421, 3603, 4213, 6701, 7698, 8580
oil, fatty 6746
phenols 1781, 4246
phosphorus 3480, 7758, 9462
phytic acid 3480
potassium 4888
protein 158, 1000, 1014, 1016, 1019
2578, 2580, 2582, 2584, 2588, 3383, 3474, 3476–3477, 3479, 3484, 3502, 4236, 4242–4245, 4248, 4850, 4877, 4884, 4889, 5070, 5686, 5722, 5750, 5754, 5756–5758, 5761–5762, 5765–5766, 6723, 6729, 6744, 7733, 7743, 7748, 7769, 8531, 8540, 8560, 8592, 8594, 8596, 8598, 8600, 8604, 9473–9475, 9477–9478, 9482
protein, technique 156
SH compounds 1804
starch 155, 5761
sugar 1783, 3387, 3495, 5761, 7755, 7758
thiamine 2581
wax 3837
chemicals, cytological effects
alkylating agents 9334
2-allylamino-4-acetylthiazole 7548
2-allylamino-4-methyl-5-acetylthiazole 7548
aminoacids 136
colchicine 4228
dimethyl sulphate 6725, 7726
endoxan 2560
ethyleneimine 9442
manganese 9334
miscellaneous 5739, 7726
N-nitroso-*N*-ethylurea 6725, 9442
N-nitroso-*N*-methylurea 6725
1,3-propane sultone 29
chemicals, fertility and sex, effects
2-chloroethanephosphonic acid 2507, 2575
ethyl methanesulphonate 4227
gametocides 8591
chemicals, general effects
actinomycin D 117
aluminium 6733
calixine 3493
CCC 153, 166, 1795, 3389, 3492, 4253, 5745, 7738, 8506, 8602, 8605, 9466
2,3-dichloroisobutyrate, sodium 6737
2,4-D 7742
ethyl-*N*-benzoyl-*N*-(3,4-dichlorophenyl)-2-aminopropionate 1033
gibberellins 8506, 9450
herbicides 4814, 6540
manganese 6733
miscellaneous 5738
N-nitroso-*N*-ethylurea 9456
N-nitroso-*N*-methylurea 9456

Triticum contd.
chemicals, general effects *contd.*
triallate 165, 2586
chemicals, mutagenic effects
1,4-bisdiazoacetylbutane 5735
1, 4-bisdiazoacetylbutane 9434
butyl methanesulphonate 135
diethyl sulphate 993, 2551, 3311
dimethyl sulphate 7724
ethyl methanesulphonate 992, 992, 2551–2552, 3447, 3449, 4227, 4227, 7719, 8576
ethyleneimine 1773, 4226, 5730, 5732, 6720
miscellaneous 1772, 2555, 2563, 3445, 3450, 4225, 4859, 5733, 6667, 9436
N-nitroso-*N*-ethylurea 2550, 3443–3444, 3444, 5730–5731, 5734, 7721–7722, 7724, 9434, 9508
N-nitroso-*N*-methylurea 135, 2550, 3447, 5729–5730, 5734–5735, 7721, 7724, 9434, 9508
Chlorops 7772
chromosomes, aberrations 29, 136, 1750, 1775–1776, 2505, 2560. 3433, 3439, 5670, 5732, 5738–5739, 6702, 6724–6725, 7726, 9334, 9442–9443
chromosomes, accessory 9441
chromosomes, morphology 138–139, 3453, 3455, 7725, 7729–7730
chromosomes, number 2537
chromosomes, substitution 137, 2558, 3477, 3693, 7731, 9416
Claviceps 1797, 5777
climate 964
Cochliobolus 170, 175, 1039, 1801, 3315, 3510, 5773, 6686, 7759, 8623, 8626
Cochliobolus, technique 4899
cold, effect of 124, 1007, 7735, 7758, 8575, 8608
cold resistance 950, 962, 1006, 1035, 2519, 2544, 2589, 3349, 3387, 3495–3496, 3499, 3501–3504, 3506, 4198, 4240, 4248, 4251–4252, 4829, 4891, 4893–4894, 5714, 6741, 6766, 7735, 7755, 7757–7758, 8605, 8608, 8620, 9488, 9490, 9494, 9497–9498
cold resistance, technique 168, 3500, 7756, 8621
colour 5735
combining ability 121, 967, 1011, 2417, 4884, 5709–5711, 5713, 5719, 6698, 7697, 7699
competition 6763
Corticium 171
density of stand 2540, 2579
desynapsis 6700
development, abnormal 149, 4220
development and growth 2562, 2572, 3460, 3503, 4251, 4871, 4880, 6734, 6736, 9451, 9500
diallel analysis 8553, 8556, 8601
diploidy 9444
dominance 4884, 8620
dormancy 147, 1007, 2564, 3464, 4232, 6732, 7702, 7737, 9447
ecotypes 1008, 2525, 3406, 5743
embryo 4213
embryo culture 8579
endosperm 4213, 9472
environment 7741
epistasis 1784, 4262, 4865, 8631
Erysiphe 92, 177, 1804, 2514, 3508, 3512, 4117, 4174, 4254, 4841, 4898, 4901, 4909, 5778, 6684, 6770, 7678, 7691, 8624, 8627, 9500
physiological races 176, 1800, 2591, 3513, 4900, 5775, 7704
experimental designs 2516, 3392, 3490, 8544, 9401
fertilization, sexual 3432
flower 149, 8586
flowering 148, 2576, 4235, 5746, 8593, 9456, 9463
fungi 1802, 1808
Fusarium 1038, 4256, 6686
γ rays 134, 136, 990–995, 1750, 1775, 2505, 2551, 2554, 2563, 3311, 3449, 4239, 4856, 5670, 6722, 6729, 6734, 7719, 7752, 9436, 9439, 9442, 9456, 9511
genetics 162, 9415

Triticum contd.
genetics *contd.*
alcohol dehydrogenase 1763
awns 8631
chomosomes, pairing 2559
desynapsis 6700
enzymes 4837
Erysiphe 92, 2514
esterase 8554
growth period 954, 1769
height 118–119, 961–962, 2530, 6696, 7684, 7703, 8583, 9413, 9450
hybrid chlorosis 2531, 3498, 5772, 6695
hybrid necrosis 1790, 2530–2531, 3498, 5714, 5772, 6695, 9492
inflorescence 976–977, 5769, 6719
leaf 6699
leaf, size 6726
ligule 6699
malate dehydrogenase 8554
Mayetiola 5785
protein 1761, 5762, 5766
pseudo-black-chaff 2590
Puccinia 179, 181, 183–185, 1042, 1807, 1810–1811, 1813, 2593, 2599, 3514–3515, 4260, 4262, 4839, 4910, 5798, 6771–6773, 6779, 7763, 7766–7767, 8420, 8631–8632, 9505, 9507, 9510, 9512, 9514
quality, for milling and baking 3440
seed, colour 120, 9447
seed, weight 2533, 4210
spikelets 2535
spikelets, number 4839
spiral habit 5625
spring and winter habit 4211
sterility, male 4865, 5749
sterility, male, cytoplasmic 5084, 6742
Ustilago 1041
water balance 1768
yield components 979, 1769, 1792, 3456, 4247
genome analysis 143, 997, 1789, 8908
genotype × environmental interaction 119, 3385, 4214, 4291, 4838, 5759, 8552, 8589, 9492
germination 147, 1007, 1013, 6764, 9459
Gibberella 973, 1801, 4256, 4897–4898, 6587, 7759
growth period 954, 994, 1769, 1792, 2536, 2566, 4198, 4227, 4233, 4828–4829, 4867, 4870, 4876, 5711, 6728, 7596, 9483
gynecium, size 7673
haploidy 2575
harvesting 5763
heat and drought resistance 169, 1038, 3502, 3506, 4117, 4250, 6672, 7754, 8529, 8533, 8550, 8606, 8610–8614, 8616–8619, 9462, 9490–9491, 9493, 9496
heat and drought resistance, technique 3497, 6767, 8609, 8615
height 97, 99, 118–119, 955, 959–962, 977, 977, 991, 993, 1036, 1044, 1750, 1777, 1792, 2518, 2530, 2552, 3451, 3465, 4191, 4230, 4233, 4855, 4874, 5698, 5700, 5753, 6696, 6736–6737, 6741, 6764–6765, 7596, 7678, 7684–7685, 7701, 7703, 7722, 7736, 7738, 8539, 8555, 8583, 8592, 9413, 9450, 9486–9487, 9515
Helminthosporium 173
physiological races 9499
heritability 978, 2579, 2585, 3483, 4212, 4214, 4874, 5711–5712, 5715, 5748, 5755, 6697, 7703, 7722, 8555, 8598, 9403
heterosis 123, 129, 979, 983, 985, 1765, 1769, 2417, 2540, 3428, 4223, 4230, 4843, 5715, 5719, 6712, 6766, 7696, 8420, 8506, 8538, 8562, 8569–8570, 9199, 9431
history and evolution 162, 997, 1024–1029, 1764, 1789, 2531, 2535, 3453, 4245–4246, 4837, 5768, 6671, 6695, 6703, 6748–6760, 7681, 7719, 9391–9393, 9430
humidity 3491
hybrid chlorosis 116, 2531, 3498, 5772, 6695

Triticum contd.
hybrid necrosis 1762, 1790, 2530–2531, 2534, 3498, 3505, 4208, 4213, 4236, 5714, 5772, 6695, 6702, 9492
hybrid varieties 129, 967, 3306, 3424, 3441, 4221, 4842, 5084, 5705, 5723, 5726, 6666, 8538
hybrid varieties, technique 2538
hybridization 989, 3442, 4222, 6721, 7701, 7712, 7746, 7757, 8563, 8588
hybridization, intergeneric 86
hybridization, interspecific 86, 124, 126, 985, 1001, 1003, 1022, 1027, 1762, 1764, 1766–1768, 1771, 1789, 1812, 2536–2537, 2542, 2544–2545, 2557, 2559, 3425, 3432–3433, 3436, 3439, 3453, 3479, 3504, 4208, 4220, 4230, 4841, 4846–4847, 4849–4850, 4868, 5695, 5717, 6705, 6740, 7704, 7717, 7763, 8542, 8560, 8566–8568, 8571, 8574, 8582, 8599, 9423–9424, 9427, 9474
hybridization, wide 982, 1765, 8564
Hylemyia 4189
inbreeding 8577
inflorescence 134, 149, 169, 976–977, 1012, 2550, 2565, 2567–2568, 3428, 3486, 5769, 6719, 6736
inheritance of acquired characters 4209, 4240, 4876, 9414
inhibitors 1784
irrigation 99, 1031, 3475, 3489, 4195, 9406, 9408, 9483
land races 3411
leaf 1030, 2514, 5728, 6699, 7734
leaf, size 977, 2562, 6680, 6726, 9468
Leptosphaeria 1040, 1799, 1803, 3509, 3511, 4253, 4855, 5776, 8622
physiological races 4896
light, effect of 2563, 8579, 9489
ligule 3446, 6699
linkage 116, 976, 2594, 5716, 6699
lodging 97, 993, 1794–1795, 3502, 4892, 6762, 7678, 7739, 9489, 9495
Macrosiphum 5786, 8536
matrocliny 9447
Mayetiola, physiological races 5785
meiosis 139–140, 1774, 2506, 2559, 2561, 2575, 3693, 4228, 5740, 6668, 6705, 6725, 7712, 7717, 7728, 9443
mitochondria 2417, 6712, 9199
mitotic recombination 4859, 6720
mixtures of crops or genotypes 71, 3460
molecular genetics 3264, 3421, 6701
multiple alleles 2534
multiple genes 3517, 5769, 6765, 6771–6772, 6775
mutation 2535, 4226, 4858, 7650, 9440
mutation, induced 134–135, 990–995, 1750, 1772–1773, 1776, 2550–2555, 3307, 3311, 3443–3448, 3450–3451, 4225, 4227, 4854–4857, 4859, 5670, 5728–5737, 6667, 6719–6723, 7719–7724, 7752, 8575–8579, 9420, 9434–9439, 9444, 9508, 9511
Mycosphaerella 4895
neutrons 3311, 3446, 4227, 5728, 6723–6724, 7723, 7752
Ophiobolus 3507
Oulema 188, 9371
pathology 4249, 6768, 8516
penetrance 1762, 1790, 2530
photoperiodism 149, 1780, 1809, 2566, 5743, 8585, 9448, 9454
photosynthesis 146, 1002, 1006, 1044, 2568, 2573, 3467, 4879, 5074, 8614
photosynthesis, technique 1005
plant collections 95, 916, 1754, 2517, 7681
plant introduction 5700, 9400, 9404
pleiotropy 6719
pollen 1004, 1774, 2506, 3470, 4237, 4875, 8575, 8587, 9423
pollination 144, 148, 151, 989, 2577, 3432, 3442, 4185, 4867, 5084, 6666, 7673, 8436, 9440, 9454
pollination, technique 8588, 9463, 9470
polyembryony and twinning 5747, 9453
polyploidy 996–997, 1024, 3344, 3470, 4235, 4238, 4245, 4847, 4862, 4908, 5738, 5768, 7723, 8601, 8908, 9444
Pseudaletia 9515
pseudo-black-chaff 2590

Triticum contd.
Puccinia 179–180, 183, 186–187, 942, 970, 972, 1739, 1806, 1808–1810, 1812, 2594, 2596, 2598–2600, 2603, 3391, 3508, 3511–3512, 3514, 3517, 3519–3520, 4254–4255, 4262, 4265, 4828, 4833, 4839, 4841, 4898, 4901, 4906, 4909, 5636, 5649, 5695, 5778, 5780, 5782–5783, 6771, 6773–6774, 6778, 7678, 7691, 7763, 7765–7766, 7769–7770, 8539, 8559, 8624, 8628, 8630–8635, 9502, 9504–9508, 9511–9514
physiological races 178, 181–182, 184–185, 1042–1043, 1800, 1807
2592–2593, 2595, 2601–2602, 2604, 3388, 3515–3516, 3518, 3521, 4260–4261, 4263–4264, 4905, 4907–4908, 4910, 5692–5693, 5775, 5781, 5784, 5798, 6540, 6580, 6688, 6769, 6772, 6775–6777, 6779, 7704, 7762, 7764, 7767–7768, 8420, 8629, 9503, 9509–9510
Puccinia, technique 5779
quality, for milling and baking 155, 157, 159–160, 1013, 1015, 1019–1020, 1022, 1759, 1788, 2509, 2578–2583, 3309, 3381, 3410, 3440, 3472–3473, 3481–3484, 3491, 4243, 4849–4850, 4882–4883, 4885–4887, 4889, 5687, 5689, 5689, 5752–5753, 5755, 5758–5759, 5763–5765, 5767, 6686, 6689, 6747, 7667, 7744–7748, 7750, 8436, 8579, 8595, 8597, 8599, 9471–9473, 9476–9477, 9479–9481
quality, for milling and baking, technique 161, 1017, 1021, 1787, 3383, 3476, 3478, 4881, 5751, 7751
quality, for nutrition 1031, 2584, 4885, 7749
quality, of edible product 2519, 3475
radiation 4857, 9444
recombination 6727, 8574
respiration 1044, 1779, 2573, 6743, 8606, 8611–8612, 9462
Rhizopertha 2606
root 1008, 1808, 4891, 8529, 8619, 9458
root, anatomy 9467
root, number 8581, 8610, 9459, 9490
root, size 8569, 8610
sclerenchyma 4229
Sclerophthora 172
seed 161, 2515, 2568, 3421, 4241, 8575
seed, anatomy 3506, 4238
seed, colour 120, 2564, 3447, 3460, 3491, 5729, 7702, 9447
seed production 3494, 8603
seed, size 5729, 6676, 8576, 9403
seed, weight 2533, 4210
seedlings 2571
selection, artificial 2516, 4191, 5743, 6676, 6680, 9403
selection, artificial, technique 4243
Septoria 174, 942, 970, 1799, 3391, 4895, 4898, 8622, 8625
sex 6668
shedding 3463
Sitophilus 2606
soil pH 6733
sowing 6764
sowing and planting date 998–999, 1014, 1032, 1034–1036, 2589, 4867
spikelets 2535
spikelets, number 4839
spring and winter habit 998–999, 1784, 2536, 2563, 2569, 2581, 2589, 3349, 3503, 4211, 4240, 4876, 5703, 5714, 9414
stem, anatomy 4892, 7739, 9495
sterility and fertility 148, 1024, 1767, 2505, 2536, 4185, 4841, 4850, 4868, 9441, 9454
sterility, male 967, 1001, 1003–1004, 2507, 2538, 2557, 2575, 3306, 3357, 3441, 3458, 5749, 6724, 8420, 8541, 8584, 8591, 8593

Triticum contd.
sterility, male, cytoplasmic 145, 152, 982, 985, 1010, 1782, 2577, 3461, 3468, 4230, 4864–4865, 4867, 4869, 4902, 5084, 5741, 5744, 6742, 7740, 8538, 8543, 8582, 9449, 9457, 9464, 10178
sterility, male, technique 4866
sterility, self 1771
stomata 1009, 3462
substitution lines 154, 979, 1027
succession, crop 2491, 2512, 9486
taxonomy 1028–1029, 2565, 3448, 3486–3488, 4246, 5769, 6761, 6781, 7675, 8532, 8601
temperature, effect of 2506, 2563, 2566, 2576, 2596, 3517, 4861, 5740, 6764, 9454
tillering 1777, 4870
Tilletia 916, 973, 1805, 7691, 7761, 8481, 9511
physiological races 1037, 6769
tissue culture 3344
translocation 120, 2559
Tribolium 2606
Trogoderma 4911
ultraviolet rays 9436
Urocystis 5774, 6769
Ustilago 1805, 4255, 4841, 4898, 4902–4904, 7760, 9501
physiological races 1041, 4258–4259, 6769
variation 87, 958, 2553, 3385, 3494, 4858, 4863, 7696
varieties 85, 7695
Algeria 5706, 6690
Australia 2526, 4206
Austria 3410–3411, 6689, 7636
Belgium 974
Brazil 4200
Bulgaria 3393, 3416, 4824, 7694
Canada 114–115, 2527–2529, 3395, 3414–3415, 3418, 5708
Czechoslovakia 7693, 8546
German Federal Republic 113
Hungary 4834
Italy 4205, 6691, 8492
Japan 7692
Netherlands 3412, 7630
New Zealand 5704
Norway 108, 8547
South Africa 4207, 4835
Sudan 4836
Sweden 112, 1760, 4117, 6692–6693
Switzerland 6688
Ukrainian SSR 109, 109–110, 9409
Uruguay 1759
USA 970–973, 975, 3374, 3417, 4201–4203, 5707, 5783, 6694, 8551, 9410–9412
USSR 111, 966, 968–969, 3419, 4204, 8548–8550, 8617
Yugoslavia 3420
varieties, classification 1781, 4877, 6739, 7665, 7753, 9469
variety trials 100, 102–103, 1686, 4832, 6681, 6683, 9405
Argentina 1758
Australia 3315
Brazil 1755–1756, 2522
Bulgaria 2503, 2519–2520, 4196, 4830–4831
Canada 105–106, 3395, 6684, 9368, 9387
Czechoslovakia 963, 5698
France 7690
Hungary 1754, 4197
India 965, 4828, 7670, 7686
Italy 5697, 6554
Mozambique 3405
Pakistan 1757
Poland 3408, 5701, 7687, 7691
Rumania 2524, 6682
South Africa 4198–4199
Spain 919, 7565
Switzerland 6664, 9386
Tunisia 101
UK 3403–3404, 4183, 4820–4821
Ukrainian SSR 98, 8545
Uruguay 964
USA 107, 4221, 5699, 7671, 9388

Triticum contd.
variety trials *contd.*
USSR 99, 2523, 4195, 4255, 5700, 6687, 6863, 7688–7689, 8489, 9404, 9407–9408
White Russian SSR 3406
Yugoslavia 2521, 3409
variety trials, technique 3407
vascular tissue 4229, 6730
vernalization 1780, 2563, 4894, 5742–5743, 9427
viruses 1044, 7773
water balance 960, 1768, 2573, 3489, 4233, 6735, 7734–7735, 8606, 8614, 9459, 9462, 9496
wax 2514
X rays 135, 1773, 2552–2554, 4241, 4855, 4871, 6721, 6724, 9451, 9455
yield components 123, 126, 146, 163–164, 976, 978–979, 1002, 1011–1012, 1025–1026, 1030, 1040, 1769, 1778, 1792–1793, 2509, 2540, 2562, 2567, 2570, 2574, 2585, 3456, 3459, 3466, 3469, 3471, 4191, 4210, 4212, 4229, 4234, 4247, 4825, 4850, 4863, 4872, 4874, 4879, 5712, 5715, 5719, 5748, 6680, 6697, 6726–6727, 6729–6730, 6763, 7685, 7697, 7707, 7722, 7732, 8420, 8540, 8555–8556, 8560, 8563, 8570, 9452, 9458, 9460–9461, 9465, 9485
***Triticum* × *Aegilops*,** hybridization, intergeneric 130, 996, 1024, 1027, 1774, 2511, 2535, 2546, 2556, 2559, 3422, 3430, 3523, 4215, 4217–4218, 4228, 4840, 4862, 5768, 6713, 6740, 7709, 7719, 9430, 9474
Triticum* × *Agropyron
hybridization, intergeneric 132, 969, 986–987
hybridization intergeneric 1812
hybridization, intergeneric 2511, 2547, 2607, 3428, 3430, 3437–3438, 3692, 4257, 4411, 4845, 5667, 5718, 5724, 6709, 7711, 8436, 8607, 8829, 9422, 9433
***Triticum* × *Elymus*,** hybridization, intergeneric 5667, 5683
***Triticum* × *Haynaldia*,** hybridization, intergeneric 2511
***Triticum* × *Hordeum*,** hybridization, intergeneric 5682
***Triticum* × *Secale*,** hybridization, intergeneric 122, 125, 127–128, 131, 133, 137, 139, 980–981, 984, 988, 1015, 1770, 1786, 1796, 1811–1812, 2511, 2511, 2539, 2539, 2541, 2543, 2548–2549, 2559, 2597, 2622, 3423, 3426–3427, 3429, 3431, 3434–3435, 3440, 3472, 3477, 4117, 4216–4217, 4219, 4224, 4228, 4254, 4844, 4848, 4851–4853, 4922, 5678, 5699, 5718, 5720–5722, 5724–5725, 5727, 5768, 6704, 6706–6711, 6714–6718, 7673, 7705–7706, 7708, 7710–7711, 7713, 7713–7716, 7718, 7718, 7727, 7743, 7757, 7773, 7785, 8436, 8557–8559, 8561, 8565, 8572–8573, 8584, 8591, 9376, 9417–9421, 9425–9426, 9428, 9432, 9445

***Triticum* varieties,** Canada 3395
Trogoderma
Hordeum 3632
Triticum 4911
Tsuga, Arceuthobium 3951
***Tsuga* × *Picea*,** hybridization, intergeneric 2271, 10055
Tuber, *Solanum,* potato 3721, 3734, 5208
Tuber, colour
Ipomoea 451
Solanum, potato 7007, 9766
Tuber, shape, *Solanum,* potato 1231, 2019, 3735, 8888
Tuber, size, *Solanum,* potato 1230
Tulbaghia, crossing over 3284
Turnip (*see Brassica,* turnip)
Twinning (*see* Polyembryony and twinning)
Tylenchorhynchus
Brassica, cabbage 8273
Brassica, cauliflower 8273
Tylenchulus
Citrus 2224, 7284
Poncirus 2224

Ulmus
breeding, USA 6309
Ceratocystis 1508, 2273, 3129–3132, 7339, 7345–7346
physiological races 6319, 8249
chemicals, as plant constituents
flavonoids 2272
peroxidase 1491
terpenoids 687
genetics, peroxidase 1491
hybridization, interspecific 3129–3130, 7345
taxonomy 687, 1491, 2272
xylem 3132
Ultrasonic waves 887
Cannabis 9833
Zea, maize 5825, 7807, 7821, 9590
Ultraviolet rays
Hypericum 5626
Jasminum 5626
Lycopersicon 2337
Rhizobium 7488
Triticum 9436
Ustilago 7546
Zea, maize 3339
Uncinula, Vitis 3912, 5446
***Uncinula,* technique,** *Vitis* 3930, 7330
Uredinales
crop plants 941
history and evolution 941
Urena
breeding, Mali 2046
yield components 2083
Urocystis
Allium, onion 6355
Triticum 5774, 6769
Uromyces
Lathyrus 1228
Medicago 4418, 8851
Musa 2247
Phaseolus 1739, 2364, 3321, 4043, 4721, 4731, 7467
physiological races 2369, 3221
Vicia, broad bean 8321
Vicia, vetch 404, 8864
***Uromyces,* technique,** *Phaseolus* 2370
Ustilaginales, grasses 361
Ustilago
Agropyron × *Triticum* 7711
Avena 203, 9518
physiological races 2617
cereals 4823
chemicals, as nutrients, inositol 7546
cold, effect of 1666
genetics 2718
haploidy 4823
Hordeum 1129, 1905, 2716–2718, 3630, 4357, 4360–4361, 4995, 5018, 7546, 9639
physiological races 3631, 5877, 7861, 9640
multiple alleles 1101
multiple genes 2716
mutation 3349
mutation, induced 7546
nucleus, number 4823
radiation 4823
recombination 1666
Saccharum 497–499, 5242–5243
Secale × *Triticum* 3434
Triticum 1805, 4255, 4841, 4898, 4902–4904, 7760, 9501
physiological races 1041, 4258–4259, 6769
ultraviolet rays 7546
Zea, maize 1101, 2631, 3349, 3607, 4332–4333, 4978, 4980, 6853, 7661, 8727
Zea, sweet corn 7831
***Ustilago,* technique**
Hordeum 1128
Zea, maize 8728
Vaccinium
Botryosphaeria 1439
chemicals, as plant constituents, anthocyanins 7297
chemicals, fertility and sex, effects, 2-chloroethanephosphonic acid 4553
cold resistance 3059
embryology 2238
fruit, colour 7297
genetics, fruit, colour 7297
hybridization, interspecific 4605, 6257

Vaccinium contd
Phytophthora 6259
plant collections 4604
pollination, technique 2239
polyploidy 4605, 6257, 6259
quality, of edible product 5407
seed, number 6258
sterility and fertility 2238, 4605
varieties, USA 644
variety trials
Irish Republic 9157
USA 10008

Valerian (*see Valeriana*)
Valeriana
chemicals, as plant constituents
oil, essential 6176
valepotriate 6176
chromosomes, number 2430
meiosis 3851
polyploidy 3851
root 6176
sterility and fertility 3851
Valerianella
chemicals, as plant constituents, flavonoids 7450
chemicals, general effects
metobromuron 6545
N-(4-bromophenyl) -*N*-methoxy-*N*-methylurea 4814
taxonomy 7450
Vanilla, hybridization, interspecific 1693
Variation 867, 6533
Abies 1527
Acer 2279
Aegilops 9516
Agrostis 359
Arachis 566
Avena 196, 4266
Beta, sugar beet 4816
Betula 686, 5460
Briza 380
Cicer 3349
Coriandrum 1644
crop plants 927, 4816
Festuca 359
fruit crops 2185, 7242
Fusarium 2889
Glycine 1618–1619, 5579, 9296
Gossypium 1272, 4452, 6030–6031
Hordeum 3385, 5011–5012
Juniperus 708
Leucaena 8252
Linum 477
Lolium 6956
Lophodermium 4641
Lupinus 1219
Lycopersicon 2341
Malus 2188
Medicago 1983, 5968
Mentha 851
Oryza 87
Oxycoccus 3908
Panicum 283
Pennisetum 9647
Phaseolus 9271, 9276
Phytophthora 2968, 7211
Pinus 695, 1520, 10060
Populus 682
Prunus, cherry 9124, 9980
Pseudotsuga 701
Quercus 1499, 6313
Rubus, raspberry 3053, 7294
Sesamum 551, 5309
Solanum, potato 7008
Thujopsis 5483
Trifolium, minor species 1998
Trifolium, red clover 1202, 1994
Triticum 87, 958, 2553, 3385, 3494, 4858, 4863, 7696
Verticillium 471
Vicia, vetch 6986
Vigna 820, 2372
Vitis 2262, 3069
Zea, maize 913, 1832, 7798, 8515
Variegation, *Zea,* maize 8917
Varieties
Actinidia, USA 4550
Agaricus, Rumania 6492
Agropyron, USA 2780
Agrostis, Netherlands 7632
Allium, garlic, Arab Republic of Egypt 7390

Varieties *contd.*
Allium, leek, Denmark 3142
Allium, onion
Bulgaria 8265
Czechoslovakia 4659, 5491
Rumania 8266
South Africa 3961
Sweden 8495
USA 2307
USSR 726, 6340
Anacardium, India 672
Ananas
Australia 3320
Puerto Rico 7307
Anethum, Sweden 8498
Apium, Yugoslavia 9228
Arachis
India 2165
USA 1373–1374, 7182
Areca, India 9145
Astragalus, Canada 3718
Austria, *Nicotiana* 521
Avena
Australia 195
Austria 3301, 3312, 7636
Canada 3528
German Federal Republic 7636
Japan 5789
New Zealand 194
Sweden 3326
UK 4915
USA 2610, 3374, 6665, 8456
Beta, Austria 7636
Beta, beetroot, Sweden 2297
Beta, mangel
Australia 6938
Austria 3304
Denmark 4160
Beta, sugar beet
Austria 508
Czechoslovakia 6095
Kirgiz SSR 8945
Netherlands 1723
UK 9855
USA 9854
USSR 8042
Yugoslavia 3785
Boehmeria, India 1256
Brassica, Australia 6938
Brassica, Brussels sprouts, UK 4672
Brassica, cabbage, Sweden 8496
Brassica, cauliflower, Sweden 2299
Brassica, kohl rabi, Hungary 1229
Brassica, rape
France 7163
German Federal Republic 8999
S. Korea 5299
Sweden 5300
Brassica, red cabbage, Austria 736
Brassica, sprouting broccoli, Czechoslovakia 738
Brassica, swede, Sweden 2296
Brassica, turnip
Japan 5179
Netherlands 1720
Cajanus, India 3251
Capsicum
Brazil 9019
Czechoslovakia 4529
Ethiopia 2992
France 9211
Hungary 8114
Italy 3954, 9019
Mexico 2172
Poland 5326
USSR 6171
Carica, USA 6655
Carya, USA 4551
Castanea, USA 8237
cereals 85
Australia 2504
Austria 3308
Bulgaria 2485
Switzerland 3375–3376
Tunisia 5680
UK 4184, 6580
Chrysanthemum, Kenya 5638
Cicer
India 2392–2393
Mexico 8358–8359
Tajik SSR 10128
Citrullus, India 2320
Citrus, grapefruit, Colombia 3041

Varieties *contd.*
Citrus, lemon, USA 4546
Citrus, mandarin, Colombia 3896
Citrus, orange, Tunisia 6192
Cocos 3043
Corchorus, India 1256, 6060
Corylus
Italy 3934
USA 8240
crop plants 8490–8491
Austria 3313
Bulgaria 2485, 4752
Canada 921
Denmark 9369
Rumania 7628
USA 8483
Crotalaria, India 1256
Cucumis, cucumber
Antilles 1694
Czechoslovakia 8294
Hungary 8295
Italy 3981
Sweden 1694, 2300, 8497
USSR 5511, 6340
Cucumis, melon
Czechoslovakia 7409
France 9211
India 9231
USA 5504
Cucurbita
Czechoslovakia 7413
India 9233
Cydonia
Bulgaria 6209
Turkey 7259
Turkmenian SSR 6210
Cynosurus, Netherlands 7632
Dactylis
Canada 7909
Czechoslovakia 5133
Netherlands 1718
Switzerland 5126–5127, 6933, 6935
Dacytlis, Australia 5132
Daucus
Denmark 3142
Sweden 8494
Digitaria, USA 3688–3689
Diospyros
Japan 3900
USSR 4594
Eleusine
India 5885, 8764
Kenya 7592
Eragrostis, USA 3690
Eriobotrya, India 4572
Festuca
Netherlands 1718, 7632
USA 3684
Festuca × *Lolium,* USA 2773
Fragaria
Bulgaria 6264
Canada 2241
German Democratic Republic 3905
Hungary 7300
Rumania 8195
South Africa 6265
USA 4549, 5410, 10011
Yugoslavia 9158
fruit crops
Canada 7241
Pakistan 9943
Rumania 9942
UK 1393, 5344
Glycine
Canada 4055–4056
India 8344
Mexico 1603
Rumania 6452
S. Korea 4053
USA 926, 1604–1607, 1714, 4054, 7479–7480, 8467, 9375
USSR 3200
Gossypium 2878
India 1260, 5217, 6036–6037, 7988–7989, 8922
Pakistan 2876
Paraguay 8913–8914
Portuguese East Africa 2877
Syria 7990
USA 1264, 1713, 3754, 8466, 8910
USSR 2053, 3755, 7049
Uzbek SSR 7050–7052, 9802

Varieties *contd.*
grasses
Australia 6938–6939
USA 1172, 7903
USSR 5936
Helianthus, sunflower
Argentina 5313
New Zealand 8471
USSR 6155
Hevea, Malaya 581, 2995
Hibiscus, India 5659
Hippophae, USSR 10019
Hordeum
Argentina 4995
Austria 3301, 7636
Belgium 7835
Canada 2681, 5849, 8735
Czechoslovakia 8736
Finland 6864
German Federal Republic 264, 6860
Hungary 1111, 1888, 7836
India 2679
Nepal 4797
Netherlands 261, 1717, 5869, 7631
Poland 6867
Sweden 1116, 1887, 3327, 6865
Ukrainian SSR 1125
USA 923, 1711, 2680, 2682–2684, 3615–3617, 6665, 6866, 9372, 9621
USSR 8737
Humulus
Czechoslovakia 6146
New Zealand 2971
USA 1352, 2972, 9898
Ipomoea
India 8050
Mexico 1255
S. Korea 3751
USA 6028
Juglans
Bulgaria 3116, 5448
USA 8233
USSR 2265
Lactuca
Czechoslovakia 7404, 8427
UK 3160
leguminous forage crops
Australia 6938–6939
Estonian SSR 7902
USA 9374
USSR 5936
Lens
Bulgaria 5588
Hungary 5589
Linum
France 9829
Lithuanian SSR 6052
Netherlands 1721
Rumania 8011
USSR 2073, 6053, 8929
Lolium
Italy 371
Netherlands 1718, 7632
New Zealand 6952
Switzerland 5126–5127, 6933, 6936
Lupinus
Poland 5991
Ukrainian SSR 8868
Lycopersicon
Arab Republic of Egypt 7426
Armenian SSR 775
Australia 774
Bulgaria 3176
Canada 6585
Czechoslovakia 5517
France 9211
Georgian SSR 10106
German Federal Republic 3175
Italy 773, 3998, 5516, 9197, 10107
Japan 4017
Lithuanian SSR 4699
Mexico 1562
Netherlands 7424
Rumania 6402, 8304, 9241
UK 3172
USA 1563, 2330, 3174, 5518, 6399–6401, 6403, 7425, 7427, 8303
USSR 776, 5519
Macadamia, USA 6655
Malus
Bulgaria 6199
Canada 596, 3001, 3003
Hungary 5351

Varieties *contd.*
Malus contd.
Kazakh SSR 4555, 9948
Kirgiz SSR 8138
Switzerland 1397, 3857
UK 1393, 2187, 4557
Ukrainian SSR 7247
USA 594–595, 597, 608, 1398, 3002, 3856, 5350, 6200, 6200, 7246
USSR 9947
Yugoslavia 9061
Mangifera
India 1425, 7289
Indonesia 3899
South Africa 5393
Thailand 7576
Manihot, India 8050
Medicago
Australia 5148–5149
Canada 5963, 7929
Chile 1980
Italy 8492
Spain 1981
USSR 7928
Melilotus, Hungary 5144
Momordica, India 9238
Morus, Ukrainian SSR 9993
Musa, Taiwan 6271
Nicotiana
Australia 8983
Austria 521
Bulgaria 2914, 2921, 4488, 4490
German Democratic Republic 3805
Hungary 7131
New Zealand 7132, 7609
South Africa 2917
Taiwan 9888
USA 522, 2102, 3806
USSR 2099, 7130
oil plants, Italy 6147
Olea
Italy 2143, 6558, 7179–7180
USSR 4519
Onobrychis, Hungary 5144
Oryza 6911–6912
Colombia 2737, 4139, 4377, 5041, 8783
Hungary 5098
India 3654, 5042, 5099, 5908, 5912
Indonesia 5045
Italy 8492
Japan 1923, 4376, 7878
Philippines 317, 1926, 5049, 5907
S. Korea 7879
Sierra Leone 6915
Sri Lanka 5044
Surinam 5911
Ukrainian SSR 5909
Papaver, Hungary 5293
Paspalum, India 1968
Pennisetum
India 8764
USA 924
Persea
Argentina 2233
USA 5402
Phalaris, Canada 3687
Phaseolus 2476
Arab Republic of Egypt 7457
Chile 7456
India 1592–1593, 2359, 8326
Mexico 8327
Netherlands 1724
Rumania 4035
UK 7455
Venezuela 8325
Phleum
Canada 6950
Lithuanian SSR 5134
Netherlands 1718
USA 2766
Pistacia, Bulgaria 5451
Pisum
Belgium 2183
Netherlands 7635
Sweden 836
USA 1628
USSR 3200
Poa
Netherlands 7632
USA 5131
Populus, Italy 1502
Varieties *contd.*
Prunus, almond
Bulgaria 2267
France 10051
USA 4552, 7334, 10050
Prunus, apricot
Bulgaria 6214
Lithuanian SSR 9969
Tunisia 6191
USA 4540
Yugoslavia 7261
Prunus, cherry
Bulgaria 6224
Georgian SSR 9975
Poland 4581
Rumania 3884
Ukrainian SSR 3023, 3023, 9117–9118
USA 4543
USSR 9116
Yugoslavia 3883
Prunus, nectarine
Italy 2220–2221, 4589
USA 4545
Prunus, peach
Bulgaria 1418
German Democratic Republic 3032
Italy 6231
Japan 6229
Sicily 7277
South Africa 5378, 9984
USA 3031, 4544, 5379, 8179, 9984
USSR 2216
Yugoslavia 9128–9129
Prunus, plum
Bulgaria 5370, 6217
Georgian SSR 1410
South Africa 1411, 8164
USA 4541–4542, 5371
USSR 9105
Yugoslavia 8163, 9104
pulses, USSR 3200
Punica, USSR 3068
Pyrus
Italy 2197, 8155
Kazakh SSR 4555
USA 3871
USSR 2196
Yugoslavia 9089
Raphanus
Bulgaria 6347
India 2305
Sweden 2298
Ribes, black currant
UK 9038
USSR 3056
Ribes, gooseberry, USSR 3049
Ricinus
India 4507
USSR 7167
Rubus, blackberry, USA 4548
Rubus, raspberry
Bulgaria 3902
canada 10002
UK 1435, 6186, 7222
USA 4547, 6251
USSR 3048
Saccharum
Australia 7104
Bangladesh 6070
Cuba 3777
India 8033
Jamaica 1309
Pakistan 489
South Africa 5239, 7105
Thailand 7571
USA 4463
Saccharum, USA 4464
Saccharum, USA 4465–4469, 7106, 8034, 9841
Scorzonera, German Federal Republic 9262
Secale
Austria 208
Canada 3536, 6792
Sweden 4119
USSR 4270
Solanum, egg plant
France 9211
India 9261
Italy 3954
USA 5539, 6655
Solanum, potato
Argentina 3730
Varieties *contd.*
Solanum, potato *contd.*
Austria 421, 3303, 7003, 7636
Belgium 2012, 2014, 4431
Denmark 9764
France 1241
German Federal Republic 7006
India 5194
Italy 7004
Netherlands 420, 1235, 1722, 3729, 7004, 7634
Norway 1232
Switzerland 6004–6005
UK 1234, 2013, 4432, 6564, 6580, 7965, 9765
USA 7967
USSR 414, 419, 3728, 6003, 7005, 7966
Sorghum
Argentina 7869
Hungary 7868
Kenya 7593
USA 1136, 1712, 3638
USSR 4370, 5887, 5890
Thea, India 2121
Trifolium, red clover
Australia 3695
Austria 399
Netherlands 1719
Sweden 8853
Switzerland 5126–5127, 6933, 6937
Triticum 85, 7695
Algeria 5706, 6690
Australia 2526, 4206
Austria 3410–3411, 6689, 7636
Belgium 974
Brazil 4200
Bulgaria 3393, 3416, 4824, 7694
Canada 114–115, 2527–2529, 3395, 3414–3415, 3418, 5708
Czechoslovakia 7693, 8546
German Federal Republic 113
Hungary 4834
Italy 4205, 6691, 8492
Japan 7692
Netherlands 3412, 7630
New Zealand 5704
Norway 108, 8547
South Africa 4207, 4835
Sudan 4836
Sweden 112, 1760, 4117, 6692–6693
Switzerland 6688
Ukrainian SSR 109, 109–110, 9409
Uruguay 1759
USA 970–973, 975, 3374, 3417, 4201–4203, 5707, 6694, 8551, 9410–9412
USSR 111, 966, 968–969, 3419, 4204, 8548–8550, 8617
Yugoslavia 3420
Vaccinium, USA 644
vegetable crops
Canada 715
Europe 4652
Rumania 9942
Tunisia 9210
USA 7376
Vicia, broad bean
Czechoslovakia 6430
Netherlands 9265
UK 8320
Vicia, vetch
Australia 3695
Bulgaria 2825
Vigna
India 3225
Senegal 1601
Vitis
Algeria 4619
Bulgaria 659, 1460, 3090, 3098–3100, 5425, 5428, 10032
Canada 7311
Czechoslovakia 3085
France 10031
Georgian SSR 5422
German Federal Republic 3920
Hungary 3087
India 1461, 2254, 7315
Italy 5427, 9169
Kazakh SSR 9171
Moldavian SSR 3091
Morocco 3083
Portugal 3089

Varieties *contd.*
Vitis contd.
Rumania 3075, 3088, 3097, 3918–3919, 8211
South Africa 4618
Spain 3084
Tunisia 9172
Ukrainian SSR 3096
USA 3095, 3916–3917, 5426, 6289, 7312, 7314, 8210
USSR 3093, 7313, 9170, 10034
Uzbek SSR 4617, 7310
Yugoslavia 3086
Zea, maize
Austria 7636
Bulgaria 7795, 8673
Chile 6804
Czechoslovakia 4938
France 1065
Netherlands 1716
Rumania 4940
Switzerland 4937
Ukrainian SSR 9556
USA 227, 1710, 4939
USSR 5814
Zea, sweet corn
Argentina 1110, 3293
Canada 6857
Malaysia 7830
USA 6655
Zizyphus, India 2248
Varieties, classification
Arachis 2148, 6165
Avena 3312, 6783
Cajanus 6485
Capsicum 573
Carica 6246
Cornus 10017
crop plants 927, 2490
Dactylis 2758
Dioscorea 1327
Festuca 2758
fruit crops 1394
Glycine 6462, 10149
Gossypium 8918, 9813
Hordeum 1115, 2705, 5872, 8748, 8752
Humulus 5297
Juglans 1470, 10048
Lactuca 8283
Lolium 2758
Malus 9072
Musa 1453
Nephelium, longan 652
Nicotiana 2919
Oryza 2743
Phleum 2758
Picea 1525
Prunus, almond 8241
Prunus, apricot 616
Prunus, cherry 7274, 8174
Pyrus 9036
Raphanus 7383
Salix 5462
Solanum, potato 1239, 7977, 9777, 9786
Trifolium, red clover 2758
Trifolium, white clover 2758, 6982
Triticum 1781, 4877, 6739, 7665, 7753, 9469
Vitis 4624, 10036
Zea, maize 1088
Varieties, classification, technique
Agrostis 9686
crop plants 8505
Hordeum 7847
Poa 9686

Variety trials, technique
Cannabis 7099
crop plants 4802
Fragaria 9161
Triticum 3407
Vascular tissue
Hemarthria 8833
Lotus 5174
Lycopersicon 3193
Medicago 5968
Secale 5801
Sorghum 299
Triticum 4229, 6730
Zea, maize 9608

Vegetable crops
breeding
Czechoslovakia 4650
German Democratic Republic 10067
Netherlands 6328
Poland 5485
Rumania 9942
UK 713
USA 709, 8262
USSR 5486, 8260, 10066, 10068
chemicals, as nutrients, manganese 2301
chemicals, mutagenic effects, miscellaneous 716
chromosomes, morphology 3955
fruiting 8259
γ rays 716
glass and plastic, cultivation under 3957, 6328
hybrid varieties 710
legislation 4651
mutation, induced 716
pathology 8521
photoperiodism 8259
plant collections 711–712, 8260
quality, for storage 7377
quality, of edible product 3956, 9050
seed 709
sterility, male 716
varieties
Canada 715
Europe 4652
Rumania 9942
Tunisia 9210
USA 7376
variety trials
Canada 4155
Netherlands 7369
Trinidad and Tobago 6643
UK 6580, 7375, 8130, 8261, 9042
USA 6334
vernalization 8259
Vegetable marrow (*see Cucurbita,* vegetable marrow)
Vegetative hybridization (*see* Hybridization, graft)
Vegetative period (*see* Growth period)

Vegetative reproduction
fruit crops 6193
Malus 4563
Medicago 7937
Saccharum 2085
Salix 5462
Solanum, potato 7976
Vitis 3101
Venturia
Malus 591, 607–608, 1398, 3009, 5359, 6181, 7230, 8147, 9082, 9084–9085, 9087, 9960–9961
Pyrus, physiological races 611, 7258
Vernal grass (*see Anthoxanthum*)
Vernalization
Avena 3529
Cucumis, cucumber 745
Triticum 1780, 2563, 4894, 5742–5743, 9427
vegetable crops 8259
Verticillium
Capsicum 9019
Carthamus 2141
chemicals, as plant constituents
enzymes 2127
protein 2127
crop plants, physiological races 77
Fragaria 9039, 9165
genetics 471
Gossypium 471, 1288, 2052, 2068, 2880, 2882, 2884, 3764, 4458, 7058, 7060–7061, 7091, 8007, 8910, 9822
physiological races 3765, 7090, 8926
Helianthus, sunflower 8105
physiological races 1369
Humulus 1352
physiological races 77, 2127, 7219, 7227
hybridization, interspecific 7029
Lycopersicon 3172, 3998, 6424, 8300, 9255
Medicago 396, 3704, 4122, 4158, 5970, 8423, 8850
parasexuality 7029
Prunus, plum 7268
Solanum, potato 7029
Verticillium *contd.*
taxonomy 7029
variation 471
***Verticillium,* technique**
Fragaria 10014
Gossypium 9823
Vetch (*see Vicia,* vetch)

***Vicia,* broad bean**
Ascochyta 8321
β rays 5670
breeding
Belgium 6552
Poland 7950
Rumania 8319
Ukrainian SSR 10130
cell division 20, 28, 891, 2355, 2431, 2437, 4026, 4028, 4101, 4768, 4771, 5621, 6524–6525, 7452, 7549, 7559, 8323, 8401, 9333
chemicals, as plant constituents
carbohydrates 9266
heterochromatin 5616
homoserine 9263
nucleic acids 3265, 4102, 7549
protein 3207, 4102
tannin 3206
chemicals, cytological effects
adenosine triphosphate 3203, 8400
5-aminouracil 6525
2,5-bis-(ethylemeimino)-*p*-benzoquinone 2436
5-bromodeoxyuridine 2431
caffeine 4101–4103
caffeine derivatives 19
chloramphenicol 8400
colchicine 20, 28
cycloheximide 4771
diepoxybutane 4101, 4768
dihydromethyl peroxide 2442
dihydrostreptomycin 5552
2,4-D 6522
granosan 4027
lichen extracts 4026
lycorine 8405
maleic hydrazide 3202, 4103
methylmercury dicyandiamide 21
miscellaneous 4103
mitomycin C 1674, 3203, 7559, 9333
N-nitroso-*N*-ethylurea 34
N-nitroso-*N*-methylurea 34
phenols 5621
streptomycin 5552
treflan 7559
vincaleucoblastine 2437
chemicals, cytologicals effects, mitomycin C 1674
chemicals, general effects
ethyleneimine 3206
herbicides 7492
chemicals, mutagenic effects
insecticides 5623
phenols 5621
chromosomes, aberrations 21, 34, 1674, 2431, 2436, 3202–3203, 4101, 4103, 4768, 5552, 5621, 5623, 5670, 6522, 6524, 7559, 8400
chromosomes, breakage 19
chromosomes, morphology 4769, 7560, 7560
chromosomes, morphology, technique 6523
cold, effect of 5616
cold resistance 2353
colour 3201
cytology 8419
dominance 4024
ecotypes 10129
Erysiphe 8321
fertilization, sexual 3205
flower, colour 4025

***Vicia*, broad bean** *contd.*
fluorescence 4769
Fusarium 8322
γ rays 2354, 5551, 5670, 7451
genetics
colour 3201
flower, colour 4025
genotype × environmental interaction 5550
habit 2356
history and evolution 3205, 5553–5555, 9267
inbreeding 1589
meiosis 6522
Meloidogyne 8323
mutation, induced 2354, 3307, 5551, 5670, 7451, 9718
nucleus, size 7452
pollination 1589, 3204–3205
polyploidy 4027
radiation 6524
Rhizobium, physiological races 806
seed, anatomy 5557
sowing and planting date 9266
sterility and fertility 3204–3205
taxonomy 4029, 5554, 5556–5557
temperature, effect of 19
Uromyces 8321
varieties
Czechoslovakia 6430
Netherlands 9265
UK 8320
variety trials
Colombia 2353
Denmark 807, 1588, 4161
UK 803, 6336, 6566
viruses 4030
physiological races 7453
X rays 2431, 4103, 6523, 8400
yield components 4028

***Vicia*, broad bean × *Pisum*,** hybridization, intergeneric 9307, 10159

***Vicia*, vetch**
Ascochyta 8864
breeding
Poland 7950
USSR 2000, 5170, 5981, 6985
chemicals, as plant constituents
homoserine 9263
vicianin 5171, 7952
climate 1209, 8863
cold resistance, technique 9745
development and growth 9744
dormancy 7951
epistasis 7951
Fusarium 1212
γ rays 1728, 9718
genetics
flower, colour 5983
seed 7951
seed, colour 5983, 9742
seed, shape 5983
genotype × environmental interaction 8863
growth period 1210
habit 9744
hybridization 5983–5984
hybridization, interspecific 4424, 7950
hybridization, technique 5982
mutation, induced 1728, 9718
Peronospora 8864
plant collections 1208
polyploidy 4424
quality, for nutrition 9718
seed 7951
seed, colour 5983, 9742
seed, shape 5983
taxonomy 1211, 5985, 6963
Uromyces 404, 8864
variation 6986
varieties
Australia 3695
Bulgaria 2825
variety trials
Bulgaria 3712
German Federal Republic 1209
Spain 919, 7567
yield components 5984

Vigna
Apis 7476
Bombus 7476
breeding
Iran 10141

Vigna *contd.*
breeding *contd.*
Moldavian SSR 6446, 9281
Nigeria 6615
Senegal 1601
Cercospora 4048
Chalcodermus 822
chemicals, as plant constituents
aminoacids 823, 6619
lysine 2372
methionine 2372
nitrogen 823
protein 2372
chromosomes, morphology 804
chromosomes, number 804
cold resistance 6446
combining ability 1602
density of stand 6447
flower 5568
flower, colour 819, 4047, 7476
flowering 4732
fruit 5568
fruit, size 819
Fusarium 8454
genetics
flower 5568
flower, colour 819, 4047
fruit 5568
fruit, size 819
leaf, shape 819
seed 2371, 5568
seed, colour 7584
viruses 824, 9282
genotype × environmental interaction 5545
habit 6447
heritability 821, 7474
hybridization, interspecific 55, 5568, 6446
hybridization, technique 10141
leaf, shape 819
Meloidogyne 8454
multiple genes 3226, 6619
mutation, induced 4047, 7474
neutrons 7474
photoperiodism 70, 4732, 6446
Phytophthora, physiological races 3226
plant collections 55, 2372, 10140
pollen 805
pollination 7476
pollination, technique 7475
Rhizobium, physiological races 5960
seed 2371, 5568
seed, colour 6446, 6619, 7584
taxonomy 804
temperature, effect of 4732
variation 820, 2372
varieties
India 3225
Senegal 1601
variety trials
Australia 818, 5545
Uganda 2477
USA 5567
viruses 823–824, 4048, 6619, 9282, 10142
physiological races 9283
X rays 4047, 7474
yield components 821, 1602, 7474, 8338

Vine (*see Vitis*)

Viruses
Arachis 1379, 6167, 9015
Beta, sugar beet 513, 1324, 2094, 2096, 3795, 3798–3799, 5993, 8048
physiological races 1323, 4487
Brassica, turnip 5993
Cajanus 10174
Capsicum 1388, 1538, 3849, 5334–5335, 6343, 7198, 8120, 8123, 8451, 9019, 9928
physiological races 2176
chemicals, mutagenic effects, nitrous acid 536
Citrus 2225, 3895
Cocos 638, 1432, 3043, 5398
Colocasia 2098
crop plants 73, 944
Cucumis, cucumber 766, 6393, 7416, 10103
physiological races 765
Digitaria 374
Eleusine 291
Fragaria 650, 2246, 6263

Viruses *contd.*
Glycine 3239, 4067, 6467, 8467
Gossypium 2044
grasses, physiological races 5129
Hordeum 281
physiological races 282
Ipomoea 5214
Lactuca 1538, 3161, 4677–4678
Lupinus 1216
Lycopersicon 795, 1561, 2346, 3175, 3196–3197, 4019, 4710, 4716, 6343, 6423, 8303, 8472, 9202, 10125–10127
physiological races 5538
Malus 609–610, 3870, 8154, 9035
Manihot 2908
molecular genetics 9
mutation, induced 536
Nicotiana 536–537, 1336, 1340, 2102, 2921, 2952–2954, 3821, 4489, 4495, 5270, 6112, 6125, 6130, 7151–7152, 8052, 8071–8072
physiological races 8995
Oryza 340, 346–347, 2463, 5033, 5122, 5907–5908, 6930, 7897
physiological races 4398, 5057
Pennisetum, physiological races 944
Phaseolus 817, 3224, 4045–4046, 5566, 6444–6445, 7457, 7468, 7470–7472
physiological races 2352, 7453, 7473, 7594, 9280
Pisum 843, 4789, 10172
physiological races 2352
Prunus, cherry 623
Prunus, peach 3892, 6235
Prunus, plum 1414, 3022, 3882, 4577, 9113–9114
Pyrus 612, 5365
Ribes, black currant 7296
Saccharum 2892, 6065, 8037, 9845
physiological races 2904, 5129
Secale 7773
Secale × *Triticum* 7773
Solanum, potato 434, 449–450, 1252–1254, 2039–2040, 2869–2870, 4432, 4434, 4450, 5182, 5187, 5189, 5212, 6019, 6021, 6024–6026, 6573, 7000, 7040, 7979, 8439, 8894, 8902, 8904, 9755, 9795
physiological races 448, 6023
Sorghum 2731, 6589
Spinacia 4675, 6327
Stenotaphrum 1975
Theobroma 4504, 6138, 6140
Trifolium, red clover 1995
Triticum 1044, 7773
Vicia, broad bean 4030
physiological races 7453
Vigna 823–824, 4048, 6619, 9282, 10142
physiological races 9283
Vitis 5447
Zea, maize 256–258, 1106–1107, 2462, 3316, 4987, 6855, 8465, 8730
physiological races 2674, 5129
Zea, sweet corn 258, 4989

Viruses, technique
Beta, sugar beet 8049
Lactuca 9227
Solanum, potato 4449, 6022, 7039, 8903
Trifolium, white clover 4422

Vitis
Agrobacterium 8228
agronomy 4628
andrecium 2255, 3105
andrecium, shape 3103
β rays 3921
breeding 5418, 8204
Argentina 3094, 3911
Armenian SSR 9167
Australia 2252, 7309
Bulgaria 3069
Canada 4148
France 1457
German Federal Republic 656, 5421
Hungary 657, 5420
Italy 10026
Rumania 3072–3075, 4615
Turkey 8203
Ukrainian SSR 3910
USSR 5419
chemicals, as nutrients
nitrogen 3113
potassium 3113

Vitis contd.
chemicals, as plant constituents
aminoacids 4622, 7331
anthocyanins 3112, 4620, 4627, 6292–6293, 7317, 7322
enzymes 3104
invertase 8220
malvidin-3,5-diglucoside 666
malvidin-5-glucoside 666
malvin 6291
miscellaneous 5443
pectin 2259, 9181
peroxidase 662
phenols 5433
pigments 6287
protein 661, 4622, 7326, 8220, 9181
sugar 5436, 5438, 5445, 9182
terpenoids 7327
vitamins 3106
chemicals, fertility and sex, effects, cytokinins 1464
chemicals, general effects
alar 5434
CCC 6295, 10041
2,6-dichlorobenzonitrile 3102
gibberellins 5434, 6283, 10041
chemicals, mutagenic effects, *N*-nitrosomethylurethane 6279
chimeras 10035
chromosomes, aberrations 5429
chromosomes, morphology 6281
cold, effect of 3923, 6294
cold resistance 668, 1467, 2263, 5432, 5442–5444, 6296, 8224–8225, 9184, 10044–10045
cold resistance, technique 3910, 9183
combining ability 6277
density of stand 8223
development and growth 3104, 5429, 6284–6285, 8216, 8218, 9178
dominance 3912
experimental designs 2253
flower 6285
flowering 2256–2257, 3923, 7316, 7318, 10038
fruit 4623, 8218
fruit, colour 2258, 4620, 8212, 8214, 9179, 10036
fruit, shape 7320, 8214
fruit, size 3098, 3101, 4616, 6288, 7320, 7324, 8212, 8214, 8221, 9173, 10033
γ rays 6279, 9180
genetics
andrecium 2255
fruit, colour 4620
fruit, size 9173
Plasmopara 3912
seed, number 6288
seed, size 6288
sex 2255
germination 3922
Gloeosporium 5445
grafting 3073
growth period 3081, 3096, 3098, 3912, 3924, 4616, 5432, 5435, 7661, 9174
gynecium, number of parts 10039
harvesting, mechanical 4623
heat and drought resistance 10046
hermaphroditism 4616, 8212
heterosis 6278, 9174–9175, 10034
history and evolution 5441
hybridization 4621
hybridization, interspecific 668, 3089, 3108, 3910, 3912, 3920, 6291, 6297, 7317, 8212–8213, 8215, 8227, 9170, 9176–9177, 10044–10045
inflorescence 5431, 6283, 7324
irrigation 3114
leaf 6279
leaf, colour 7322
legislation 3084–3089
mechanical injury 3098, 3928, 3931, 8226, 8226
meiosis 6281–6282
Meloidogyne 3933
mixoploidy 10040
multiple genes 5444
mutation 3101, 10035
mutation, induced 3921, 6279–6280
neutrons 3922, 6280
Vitis contd.
parthenocarpy 3105, 10037
pathology 3115
photosynthesis 6287
Phylloxera 3920, 6297, 7331, 8227
physiology 5441
plant collections 3076
Plasmopara 2264, 3912, 3932, 6280, 7661, 8227, 9186
pollen 6286, 8217
pollen, size 10040
pollination 664
polyploidy 3101, 5430, 6282, 7321, 8217, 10035
pruning 1462, 1466, 3929
Pseudopeziza, physiological races 9185
quality, for drying 3110
quality, for freezing 3107
quality, for nutrition 8222
quality, for storage 2259, 3098, 3109, 3111, 3928, 6290, 7325
quality, of edible product 665, 2261, 3912, 7324, 7329, 8221, 10043
quality, of wine 659–660, 667, 1465, 2260, 3069, 3096, 3108, 3111, 3926–3927, 4156, 4626–4627, 5421–5422, 5435, 5437, 5439–5440, 6289, 6291, 6293–6294, 7217, 7323, 7326–7328, 8219–8220, 9181, 10042
radiation 4625
respiration 3104
rootstock 3920, 4147, 6276, 8206, 9177
salinity 8206
Sclerotinia 3091, 8229–8230
seed, number 6288, 8214, 8221
seed, shape 7320
seed, size 6288, 7320
seedlessness 2254
selection, artificial 2251, 3070
sex 1464, 2255
shedding 3928, 7321
sterility and fertility 660, 663–664, 3103
sterility, male 1463, 3105, 8217
sterility, self 3105
stomata, number 7319
stomata, size 7319
temperature, effect of 2256–2258, 6286, 9178, 10043
tissue culture 5430
Uncinula 3912, 5446
Uncinula, technique 3930, 7330
variation 2262, 3069
varieties
Algeria 4619
Bulgaria 659, 1460, 3090, 3098–3100, 5425, 5428, 10032
Canada 7311
Czechoslovakia 3085
France 10031
Georgian SSR 5422
German Federal Republic 3920
Hungary 3087
India 1461, 2254, 7315
Italy 5427, 9169
Kazakh SSR 9171
Moldavian SSR 3091
Morocco 3083
Portugal 3089
Rumania 3075, 3088, 3097, 3918–3919, 8211
South Africa 4618
Spain 3084
Tunisia 9172
Ukrainian SSR 3096
USA 3095, 3916–3917, 5426, 6289, 7312, 7314, 8210
USSR 3093, 7313, 9170, 10034
Uzbek SSR 4617, 7310
Yugoslavia 3086
varieties, classification 4624, 10036
variety trials
Arab Republic of Egypt 5424
Australia 8206
Bulgaria 4617, 6275–6276, 8208, 10027
Canada 4147, 7216
Colombia 3077
Czechoslovakia 8425
German Federal Republic 1458
Italy 3071, 9168
Rumania 3079, 3913–3914, 5423, 6274, 8207, 8209, 10028–10030
Switzerland 3080
Vitis contd.
variety trials *contd.*
Tunisia 8205
Ukrainian SSR 658
USA 3915
USSR 1459
Venezuela 3078
vegetative reproduction 3101
viruses 5447
water balance 3104, 3925, 9183
X rays 3922, 3932, 6280
yield components 5431, 6284, 8216, 9174
Vivipary
Allium, garlic 7391
Citrullus 752
Zea, maize 1851
Voandzeia
pollen 805
yield components 5177
Volvariella
immunology 5601
taxonomy 5601
Walnut (*see Juglans*)
Water balance
Carthamus 2987
cereals 6669
Citrus, lemon 9990
fruit crops 589
Glycine 1613, 7484
Gossypium 8921
Malus 589, 1399–1400, 9956
Oryza 1938, 6923
Phaseolus 6435
Populus 682, 3122
Prunus, cherry 7275
Prunus, peach 4585
Pyrus 4570
Salix 1511
Theobroma 2966
Triticum 960, 1768, 2573, 3489, 4233, 6735, 7734–7735, 8606, 8614, 9459, 9462, 9496
Vitis 3104, 3925, 9183
Zea, maize 2646, 7812, 8699, 9576
Water melon (*see Citrullus*)
Waterlogging, *Trifolium,* subterranean clover 4423
Weather fleck, *Nicotiana* 2935–2937, 5276, 8975
Weeds
Lolium 4406
Phaseolus 3222
Sorghum 5905
Weightlessness (*see* Space flight)
Wheat (*see Triticum*)
Wheat grass (*see Agropyron*)
White clover (*see Trifolium,* white clover)
White ear, *Zea,* maize 9607
Wide hybridization (*see* Hybridization, wide)
Willow (*see Salix*)
Wind
Hevea 584, 9026
Pinus 696
Wine, quality (*see* Quality, of wine)
Winter habit (*see* Spring and winter habit)
Winter hardiness (*see* Cold resistance)
Wireless waves 8396
Wiseana
Lolium 5978
Trifolium, white clover 5978
X chromosomes (*see* Sex chromosomes)
X rays
Acer 2279
Allium, minor species 884
Arachis 2152, 2988–2989
Avena 2611
Beta 7110
Beta, sugar beet 3791, 9859
Brassica, rape 2133, 8089
Capsicum 2173, 8116
Corchorus 9838
Crepis 885, 885, 3285
crop plants 928, 4100
Cryptomeria 1497
Cydonia 5366
Glycine 6456, 7481
Hevea 9026
Hordeum 2432, 4349, 4999–5000, 5015, 6870, 6873
Lycopersicon 3180, 4001, 5534
Mentha 3253
Nicotiana 3807, 5647, 7602

X rays *contd.*
Oryza 324, 5102, 5919–5921, 7879, 7882
Phaseolus 2359, 7458, 7462, 8331
Pinus 1497, 3137
Pisum 3244, 7501, 10160
Poa 2761
Prunus, cherry 9979
Saintpaulia 4766
Secale × *Triticum* 1811
Solanum, potato 7009, 7974–7975
Sorghum 5897, 7875
Thuja 706
Triticum 135, 1773, 2552–2554, 4241, 4855, 4871, 6721, 6724, 9451, 9455
Vicia, broad bean 2431, 4103, 6523, 8400
Vigna 4047, 7474
Vitis 3922, 3932, 6280
Zea, maize 4314, 4969, 6816, 7808, 8701, 9569
Xanthomonas
Brassica, cabbage 2312, 3155, 3157, 6367
Brassica, mustard 9004
Citrus 2223, 9140
Erianthus 6067
Glycine 7489
Gossypium 466–467, 1264, 7058
physiological races 465, 8908
Oryza 332, 334–335, 338–339, 4394, 5033, 5058–5059, 5061–5062, 5119, 5907–5908, 5915, 6621, 7890
physiological races 336–337, 1943, 5060, 8794
Phaseolus 4177, 6443, 7463–7464, 9278–9279, 10139
physiological races 6441
Prunus, apricot 3018
Prunus, plum 1411
Saccharum 6065–6067
Xanthosoma, chemicals, as plant constituents, ascorbic acid 5541
Xenia 8379
Prunus, cherry 3025
Pyrus 5360
Xenoglossa, *Cucurbita* 3166
Xyleborus, *Thea* 5282, 8073
Xylem (*see also* Vascular tissue)
Juniperus 707
Lycopersicon 4715
Phaseoleae 8317
Ulmus 3132
Y chromosomes (*see* Sex chromosomes)
Yam (*see Dioscorea*)
Yield components
Arachis 564–566, 6164, 7183, 9917
Avena 197, 200–201, 1050, 7775, 7777, 9521
Beta, mangel × Beta, sugar beet 8946
Beta, sugar beet 2092–2093, 4475–4476, 7122, 9870
Brassica, mustard 2976, 8090, 8092
Brassica, oil crops 2135, 6731, 8088, 9904–9905
Cajanus 1641
Capsicum 571
Carum 1646
cereals 949, 1749, 2508
Cicer 844, 6481–6483, 7514–7515
Cocos 5397
Corchorus 483, 1297
Coriandrum 1647
Corylus 7333
crop plants 906, 6529
Cucumis, melon 748
Cyamopsis 409
Dactylis 364
Dolichos 5176
Elaeis 562
Eleusine 4365
Festuca × *Lolium* 1183
Fragaria 2242, 10013
Glycine 1619, 2378–2379, 3232, 6448–6449, 6459–6462
Gossypium 1257–1258, 1261, 1263, 1267, 1281, 1284, 2064, 3752, 5219, 5225, 6039–6040, 6042, 8003, 8924, 9815
grasses 355
Helianthus, sunflower 6158, 8100
Hibiscus 4462
Yield components *contd.*
Hordeum 1119–1120, 1884, 1889, 1902–1903, 2702, 2704, 4342, 5013, 5862, 5864, 6869, 8734, 8750, 9623, 9628–9629, 9638
Linum 476–477, 2888
Lolium 1181, 3682, 4408, 8821
Luffa 10104
Lycopersicon 5520–5521, 5524–5525
Malus 9065, 9074
Manihot 2910, 3802
Medicago 2805, 3703, 4415, 5154, 5156, 7923, 7931, 7936
Musa 3067
Nicotiana 529, 2108, 6111
Oryza 320–321, 1157–1158, 1160, 1927, 1933–1934, 1936, 1939, 2741, 2745, 2750, 3657, 4381, 4385, 5072–5073, 5922, 6925, 7880, 7885, 7887, 9669
Panicum 8762
Papaver 2125
Pennisetum 284, 1132–1133, 1909, 7865, 9647
Phalaris 5953
Phaseolus 813, 4037
Pisum 838, 2387, 2389, 4070, 4081, 6470, 6473–6475, 6479, 7923, 9937
Poa 9693
Prunus, cherry 8175
Prunus, plum 8169
Psophocarpus 6486
Raphanus 7382, 9821
Ricinus 2977
Saccharum 2085, 2899, 6072
Secale 2509, 3549, 4271, 4926, 7786, 8650, 8654
Sesamum 6151
Solanum, egg plant 4717
Solanum, potato 1230, 1238, 2840, 7968, 7984, 8889, 9780
Sorghum 295, 1137–1138, 1142–1143, 1910, 1913, 1916, 2720–2722, 5896, 5902, 6908, 7871–7874, 8774
Trifolium, minor species 3711, 9741
Trifolium, red clover 2812, 5165, 8854
Triticum 123, 126, 146, 163–164, 976, 978–979, 1002, 1011–1012, 1025–1026, 1030, 1040, 1769, 1778, 1792–1793, 2509, 2540, 2562, 2567, 2570, 2574, 2585, 3456, 3459, 3466, 3469, 3471, 4191, 4210, 4212, 4229, 4234, 4247, 4825, 4850, 4863, 4872, 4874, 4879, 5712, 5715, 5719, 5748, 6680, 6697, 6726–6727, 6729–6730, 6763, 7685, 7697, 7707, 7722, 7732, 8420, 8540, 8555–8556, 8560, 8563, 8570, 9452, 9458, 9460–9461, 9465, 9485
Urena 2083
Vicia, broad bean 4028
Vicia, vetch 5984
Vigna 821, 1602, 7474, 8338
Vitis 5431, 6284, 8216, 9174
Voandzeia 5177
Zea, maize 1080, 1082, 1832, 1861, 1870, 1874, 2633–2634, 2641–2642, 2645, 2657, 3575, 3577, 4298, 4309, 4316, 4943, 4958, 5821, 6808, 6814, 7799, 7802, 7811, 7815–7816, 8659, 8676, 8686, 9558, 9568, 9582
Zea, sweet corn 9614
Yield components, technique, *Hordeum* 272
Yucca, taxonomy 486
***Zea,* maize**
anatomy 1096
andrecium 8528, 8704
androgenesis 8707
aneuploidy 1852, 5816, 7810
anther 6826
anther culture 6827
apomixis 8668, 8708
Aspergillus 1876
asynapsis 5824
back crossing 213, 3591
bacteria 8721
breeding 946, 4286–4287, 4294–4295, 4300, 4961, 5812, 6802, 8486
Arab Republic of Egypt 4290
Bolivia 4280
Brazil 2627, 2671, 4278
Cameroon 5804
Colombia 4138, 4288, 4292
Czechoslovakia 7790
***Zea,* maize** *contd.*
breeding *contd.*
France 4934
India 4285, 4795, 5810
Kazakh SSR 3371, 5806
Kenya 3556, 4293, 8660
Lebanon 4290
Mexico 4282, 4297, 5678
Moldavian SSR 5805
Nicaragua 4284
Pakistan 4289
Peru 4277, 4933
Philippines 4279
Rumania 3561, 5811
Taiwan 4303
Thailand 4281
Ukrainian SSR 4302
USA 3579, 6800
USSR 1072, 3558–3559, 4301, 4932, 4962, 9363, 9544, 9546–9547
Venezuela 2462, 4283
breeding, technique 6841, 9545
cell death 8722
cell division 231, 894, 2639, 4770, 6821, 9573
cell inclusions 8917
centres of origin 1087, 4973
Cephalosporium 3604, 6847
physiological races 6851
chemicals, as nutrients
calcium 2647
iron 9581
magnesium 2647
miscellaneous 238, 1089–1090, 2630, 2648, 4957, 6839, 6842, 7824, 8719
nitrogen 243, 4323–4324, 4976, 5828
phosphorus 243, 2647, 5828
potassium 2647, 2655, 5828
sulphate 236
chemicals, as plant constituents
adenosine diphosphate glucose pyrophosphorylase 9592
aflatoxin 1876
alcohol dehydrogenase 1842, 2635
aminoacids 1085, 1869, 3592, 4313, 4969, 5821, 6836, 8531, 8679, 8688, 8710, 9594, 9600
amylose 7824
anthocyanins 1841, 5823, 6822
ash 2649
auxins 5827
carbohydrates 3593, 4321, 5833
carbonic anhydrase 9570
carotenoids 1869, 7813
catalase 1838, 8696
chlorophyll 2659, 5828, 6846, 8694, 8709
cytochrome oxidase 9563
enzymes 1068, 1081, 1081, 1099, 1860, 4319, 4328, 4950, 4957, 6813, 8505, 8705
esterase 4942
flavonoids 7823
β-glucosidase 9608
heterochromatin 1839, 2639
lignin 1067, 8688–8689
linoleic acid 8457
linolenic acid 8457
lipids 5816
lysine 240, 1867, 2636, 3591, 4320, 4967–4968, 4970, 5834–5835, 7587, 8716–8717, 9596, 9599
lysine, technique 6832, 8714
malate dehydrogenase 1845
manganese 4959
miscellaneous 943, 1857, 3349, 4308, 6839
nitrogen 240, 4310, 7803, 7820, 9598
nucleic acids 3593, 7809
oil, fatty 237, 1868, 3592, 4962, 5836–5838, 9591, 9601
phosphoenolpyruvate carboxylase 9570
phosphorus 4310, 7814, 8706, 9598
potassium 4959, 5835, 7814, 8706, 9598
protein 238, 1086, 1865–1867, 1869, 2651, 3581–3582, 3589–3592, 4282, 4296, 4310, 4313, 4961, 4964, 4966, 4968–4969, 5834, 5837, 6833–6835, 6837–6838, 6841, 8531, 8679, 8712–8713, 8715–8716, 8729, 9594, 9596–9598, 9601
pyrophosphorylase 1863

Zea, **maize** *contd.*
chemicals, as plant constituents *contd.*
riboflavin 9584
ribonuclease 2653
ribulose diphosphate carboxylase 1074
9570
sodium 4959
starch 88, 4965, 5837, 9601
sugar 6826
thiamine 9584
tocopherol 9591
tryptophan 2636, 4320, 4968, 4970, 6840, 7587, 9599
vitamins 3592
zinc 4959
chemicals, cytological effects, chelating agents 1855
chemicals, general effects
butanol 240
chorial 5807
fungicides 4179
herbicides 1092, 2656
miscellaneous 5818, 8711
chemicals, mutagenic effects
diethyl sulphate 1840
dimethyl sulphate 7807
ethyl methanesulphonate 8690
maleic hydrazide 5823
miscellaneous 5822, 7821
N-nitrosoguanidine 8690
N-nitroso-*N*-methylurea 7807
phenols 1075
Chilo 1105
chimeras 8702
chloroplasts 1073, 8917
chromosomes, aberrations 1850, 1852, 2638, 4314, 7810
chromosomes, accessory 1853, 8698
chromosomes, morphology 2657, 4953, 8697
chromosomes, morphology, technique 24
climate 3562, 4142
Cochliobolus 237, 248–250, 258, 1098–1099, 1877–1878, 1920, 2493, 2660–2662, 2664, 2667, 3603, 3605–3606, 4326, 4328, 4982–4983, 6674, 8511, 8721, 8724, 9553, 9609
physiological races 1879–1880, 3602, 4330–4331, 4984, 6850, 6852, 8726
physiological races, technique 4981
cold, effect of 3583, 4315, 7808
cold resistance 1093–1094, 1097, 2658–2659, 3599–3600, 4977, 5841, 6798, 6845–6846, 7827, 9603
cold resistance, technique 247, 7819, 8720
colour 1073–1074, 1840, 1846, 4307, 9559
combining ability 2633, 3557, 3578, 3581, 4308, 4929, 4945, 5817, 5829, 6807, 6812, 7591, 8663, 8666–8667, 8674–8676, 8678, 8686, 8705
combining ability, technique 8680
competition 1873, 4329
complex loci 4307
Corynebacterium 4979
crossing over 1855, 4307, 5824, 6818
cytoplasmic inheritance 1875, 2632, 4309, 6811, 6844, 7797, 7799
density of stand 243–245, 1058, 1872–1873, 3577, 3597, 4324, 4975, 8664, 8670, 9538, 9605
desynapsis 7806
development and growth 1073–1074, 3583, 3587, 4318, 4322, 4333, 5820, 5825, 6809, 6831, 6843, 7817, 7822, 8700, 8704, 9606
diallel analysis 1869, 8661, 8676, 8679
Diatraea 8446
Diplodia 1881, 4985
electrons 9574
embryo 4966, 5809
embryo culture 5819
embryo, size 5836
embryology 1083
Zea, **maize** *contd.*
endosperm 213, 2645, 2653, 4303, 4313, 4965, 7587, 8665, 8691
epidermis 2661
epistasis 6808, 9562
experimental designs 1844, 8664
fertilization, sexual 4955, 5809
flooding 3601
flowering 3585
fluorescence 4956
fungi 8721, 9611
Fusarium 1875, 4980, 4985, 6563, 6848–6849, 7661, 7668, 7829
γ rays 1851, 2636, 3341–3342, 4332, 4954, 6807, 6834, 7821, 8713
genetics 3574
adenosine disphosphate glucose pyrophosphorylase 9592
alcohol dehydrogenase 2635
aminoacids 8710
anthocyanins 6822
ash 2649
catalase 1838
cell death 8722
cell division 9573
Cephalosporium 6847
chromosomes, accessory 1853
cold resistance 2658
colour 1840, 1846, 9559
endosperm 213, 8691
enzymes 1068
habit 9561
height 2634
Heliothis 1103
leaf 6583
lignin 1067
ligule 1078
lipids 5816
lysine 2636, 4970
malate dehydrogenase 1845
pollen 6806
protein 6837–6838
quality, for nutrition 2652
ribonuclease 2653
seed 1862, 1867
seed, colour 8677
seed, weight 4303
Spodoptera 1102
sterility, male 3586, 3588, 4959, 9578, 9588
Trichometasphaeria 251, 5810
viruses 1107, 8730
genotype × environmental interaction 1069, 1843, 1849, 3573, 4291, 4314, 6809–6810, 6824, 7805, 8710
9562
germination 67, 247, 1097, 4315, 5827, 7819, 9604
Gibberella 2666, 2668, 4329, 4985, 6848, 7661
physiological races 2669
Gloeocercospora, physiological races 2663
growth period 234, 1058, 2630–2631, 2644, 3557, 3585, 4311, 4975, 5828, 5830, 6583, 6798, 7661, 7805, 8457, 8686, 8727, 9558, 9579–9580, 9583, 9605
habit 2657, 9561
haploidy 232, 1077, 4951–4952, 6817, 6820, 6827, 7808, 8693–8696, 8699–8701, 9571, 9574–9575
haploidy, technique 233
harvesting, mechanical 1091
heat and drought resistance 2631, 4282, 5840, 6798, 7826, 8533, 9606
heat, effect of 234, 4956
height 2634, 4935, 4952, 7797, 7801, 7806–7807, 8528, 9558, 9587
Heliothis 253, 1103
Helminthosporium 248, 8725
heritability 1103, 1844, 2425, 3575–3576, 3580, 4943, 6808
heterochromatin 2639
heterosis 244, 1059, 1080–1082, 1849, 2635, 2659, 3349, 3580, 4312, 4950, 5819–5820, 6808, 6825, 7642, 7803–7805, 7822, 8678, 8681, 8685, 8687, 8703, 9560, 9564–9566, 9568, 9597
heterozygosis 8687, 9560
Zea, **maize** *contd.*
history and evolution 241–242, 1087–1088, 2654, 3594, 4322, 4973, 5839
homozygosis 4929
hybrid varieties 85, 225–226, 230, 1066, 1837, 1865, 2628, 2631, 3302, 3558–3559, 3559, 3563, 3570–3572, 4311, 4938, 4940, 4969, 5641, 5815, 6798, 6803, 6814, 7668, 7795–7796, 8673, 9545, 9557
hybridization 236, 1086, 1688, 1847, 3577, 3582, 4930, 4947, 6583, 6813, 9540, 9553
hybridization, technique 4946, 5818
immunology 4949, 8681
inbreeding 1832, 2650, 3579, 4929–4930, 4945, 4951–4952, 5807–5809, 5811, 6805, 6835, 7800, 7802, 8662–8663, 8695, 8705, 9542
inbreeding, technique 1057, 8668
inflorescence 235, 7811, 7817
inflorescence, number 9538, 9586
inflorescence, size 7579, 7801
irrigation 238, 2631, 4975, 5840, 6842, 7825, 8718
Khuskia 7661
land races 1871
leaf 6583, 6674, 7797, 7817, 8694
leaf, anatomy 8695
leaf, number 9583
leaf, size 5820
light, effect of 3603, 4960
ligule 1078
linkage 2668, 3340, 4942, 9559
lodging 1095–1096, 1881, 3598
matrocliny 1097
meiosis 231, 1854, 1858, 6819, 7810, 8697
Meloidogyne 2672
mitochondria 2664, 2667, 4326, 8711, 9565
mixtures of crops or genotypes 1872–1873, 3595
modifiers 1839, 1841, 4944
multiple alleles 228, 2635, 2670, 5823
multiple genes 1842, 4939, 7829, 9561
mutation 1073–1074, 1076, 1841, 1850, 1864, 1868, 3339, 5823, 8665, 8688–8689, 8917
mutation, back 3342
mutation, induced 1075, 1840, 1851, 2636, 3341–3342, 4313, 5822, 5825, 6834, 7806–7807, 7821, 8713, 9569
mutation, induced, technique 8690
neutrons 3555, 7806
nondisjunction 8692
nucleolus 894, 9572
Oscinella 1104
Ostrinia 254, 2631, 2673, 4279, 4334, 4978, 4986, 8727
Ostrinia, technique 255
pathology 246, 4299, 8515, 8723
photoperiodism 4138, 4295
photosynthesis 1074, 1080, 1098, 3577, 6583, 6825, 6830, 7642, 8663, 9577
Phyllosticta 2665, 4327, 8721, 8724
physiology 236, 1076, 3349, 4312
plant collections 1831, 6798–6799, 9543
plant introduction 9548
pollen 4959, 5827, 6806, 7817, 8690, 8710, 9569
pollen, size 8685
pollination 1079, 1859, 4317, 4951, 5831, 7642, 7808, 8709, 9589
pollination, technique 1057
polyembryony and twinning 2650
polyploidy 1838, 1856, 4317, 6819, 7804, 7810, 8702, 8708
protoplasts 4758
Puccinia 2670–2671, 6588
quality, for malting and brewing 9595
quality, for milling and baking 6838, 9595, 9601
quality, for nutrition 230, 239, 1084, 1870, 2652, 4320, 4963, 4967, 4969, 4971–4972, 6814, 6828, 7587, 8688–8689, 9593–9596, 9601
quality, of edible product 4944, 5837
radiation 8687
recombination 228, 4941, 8698
respiration 9565

***Zea*, maize** *contd.*
root 236, 2643, 3601, 3604, 5830, 8528, 8700
root, weight 9585
salinity 4974, 9604
Sclerophthora 1100
Sclerospora 4279, 7828, 9610
Sclerospora, technique 5843
seed 1862, 1867, 3589, 5842
seed, colour 233, 4939, 8677
seed, size 3582, 9590
seed, weight 3591, 4303, 4930
selection, artificial 214, 1058, 1068, 1828, 1830, 2641–2642, 3555–3556, 3598, 4928, 4931, 4941, 8661, 8665–8667, 8717, 9539–9541
silage 1064, 3569, 4142, 6803, 6828, 9564
Sitophilus, technique 252
Sitotroga 6854, 8729
soil pH 2647–2648
sowing and planting date 247, 3293, 3596, 9603
Sphacelotheca 4179, 7661
Spodoptera 1102
statistics 3573
stem 1095–1096
sterility, amle, cytoplasmic 1864
sterility and fertility 1084, 2650, 4960, 6820, 9589
sterility, male 1083, 1860, 2493, 4319, 4959, 6583, 6798, 6817, 7806
sterility, male, cytoplasmic 249, 1099, 1857–1858, 1864, 1878, 1880, 1920, 2493, 2646, 2660, 2665, 2667, 3584, 3586, 3588, 3603, 3605, 4326, 4326–4328, 4331, 4982, 4984, 5826, 5829, 5832, 6823–6824, 6826, 7807, 7821, 8707, 8711, 8721, 8724, 9553, 9578, 9584, 9588, 10178
stomata 1098
stomata, number 6829
succession, crop 6555
synthetic varieties 1829, 1874, 4976, 5808, 7579, 7605
taxonomy 7823, 9602
temperature, effect of 1846, 1878, 3557, 6843, 8457
tillering 6828, 7818
tissue culture 2643, 3344
translocation 232, 1854–1855, 2637–2639, 4942, 8698, 9559
Trichometasphaeria 248, 1877, 2631, 3606, 4983, 5810, 6844, 9608
physiological races 251, 4325
ultrasonic waves 5825, 7807, 7821, 9590
ultraviolet rays 3339
Ustilago 1101, 2631, 3349, 3607, 4332–4333, 4978, 4980, 6853, 7661, 8727
Ustilago, technique 8728
variation 913, 1832, 7798, 8515
variegation 8917
varieties
Austria 7636
Bulgaria 7795, 8673
Chile 6804
Czechoslovakia 4938
France 1065
Netherlands 1716
Rumania 4940
Switzerland 4937
Ukrainian SSR 9556
USA 227, 1710, 4939
USSR 5814
varieties, classification 1088
variety trials 216, 6802, 9555
Argentina 7791
Belgium 1063
Brazil 1833–1834, 2627
Bulgaria 3566, 4304, 9550
Cameroon 1688
Canada 224, 9387
Czechoslovakia 218
Denmark 215
Ethiopia 1688, 2629, 5632
German Federal Republic 3569
Hungary 2628
India 5813
Irish Republic 9552
Italy 3568, 6555, 7598, 8672
Kazakh SSR 1064
Kenya 5632

***Zea*, maize** *contd.*
variety trials *contd.*
Moldavian SSR 4306, 4935
Nigeria 217, 8669
Peru 1843, 1870
Portuguese West Africa 3323
Reunion 1835
Rumania 3560, 3564, 3567, 4305, 4936, 8671
South Africa 3562–3563
Switzerland 7792, 9386
UK 9551
Ukrainian SSR 1062
USA 84, 219–223, 1060–1061, 1836, 2630, 3570, 6801, 7793–7794, 9553–9554
USSR 7827, 9549
Yugoslavia 3565
vascular tissue 9608
viruses 256–258, 1106–1107, 2462, 3316, 4987, 6855, 8465, 8730
physiological races 2674, 5129
vivipary 1851
water balance 2646, 7812, 8699, 9576
white ear 9607
X rays 4314, 4969, 6816, 7808, 8701, 9569
yield components 1080, 1082, 1832, 1861, 1870, 1874, 2633–2634, 2641–2642, 2645, 2657, 3575, 3577, 4298, 4309, 4316, 4943, 4958, 5821, 6808, 6814, 7799, 7802, 7811, 7815–7816, 8659, 8676, 8686, 9558, 9568, 9582
***Zea*, maize × *Coix*,** hybridization, intergeneric 4949
***Zea*, maize × *Euchlaena*,** hybridization, intergeneric 1070, 1848, 4948, 9567
***Zea*, maize × *Tripsacum*,** hybridization, intergeneric 242, 2640, 2654, 6815, 8682–8684
***Zea*, popcorn**
chemicals, as plant constituents
protein 5845
starch 5845
genetics, sterility and fertility 4337, 4991
history and evolution 9567
inbreeding 4990
pollination 3609
quality, for processing 3609, 5845
sterility and fertility 4337, 4991
sterility, male, cytoplasmic 4336
temperature, effect of 4336
variety trials, USA 259, 6859
***Zea*, sweet corn**
aging of seeds 9613
breeding, Hungary 6856
chemicals, as nutrients, miscellaneous 4988
chemicals, as plant constituents
carbohydrates 5844
dextrin 9615
phosphorus 9615
phytin 9615
protein 3590, 9615
starch 9615
sugar 9615
combining ability 1882
density of stand 2675, 8732
growth period 7641
gynecium, size 8731
haploidy 8731, 9613
hybrid varieties 7605
hybridization 1086, 4335, 5844
inbreeding 6858
irrigation 4988, 8732
photosynthesis 7641, 9614
quality, for nutrition 5844
sterility, male, cytoplasmic 4336
stomata, number 6829
temperature, effect of 4336
Trichometasphaeria 2676
Ustilago 7831
varieties
Argentina 1110, 3293
Canada 6857
Malaysia 7830
USA 6655
variety trials
Brazil 1109
Bulgaria 3608
Canada 9612
UK 6339

***Zea*, sweet corn** *contd.*
variety trials *contd.*
USA 1108
viruses 258, 4989
yield components 9614
Zingiber
chromosomes, morphology 2177
chromosomes, number 7204
quality, of edible product 9929
taxonomy 7204
Zingiberaceae, chromosomes, number 2177
Zizyphus
chemicals, as plant constituents, ascorbic acid 2250
varieties, India 2248

SUBJECT INDEX – Additions

α rays, *Lycopersicon* 9247
Acer, polyembryony and twinning 2280
Agropyron, taxonomy 5955
Alternaria, *Gossypium* 3766
Anatomy, *Solanum*, potato 9779
Apium* × *Petroselinum, hybridization, intergeneric 3162
Apomixis
Paspalum 8447
Tripsacum × *Zea*, maize 2640, 8684
Avena, *Puccinia* 9527
β rays, *Vicia*, broad bean 5670
***Beta*, mangel × *Beta*, sugar beet**
hybridization 8946
polyploidy 4471, 4474, 6098, 8946
sterility, male, cytoplasmic 4471
yield components 8946
***Beta*, sugar beet**
Cercospora, technique 4484
polyploidy 9866
***Brassica*, sprouting broccoli**, varieties, UK 5497
***Brassica*, turnip**
chemicals, mutagenic effects
ethyleneimine 5996
hydrazine 5996
varieties, Netherlands 7633
Bremia, *Lactuca*, physiological races 4130
Bromus, mixtures of crops or genotypes 8814
Cajanus, pollination 10175
Callosobruchus, *Phaseolus* 8337
Carica, chemicals, as plant constituents, ascorbic acid 639
Cereals, *Puccinia*, physiological races 9398
Chemicals, as nutrients, *Colocasia* 5263
Chemicals, as plant constituents
amylase, *Hordeum* 8755
ascorbic acid, *Carica* 639
3-dodecanone, *Mentha* 854
nucleic acids, *Pelargonium* 2423
phenylalanine ammonia lyase, *Oenothera* 2410
pigments, *Solanum*, potato 9783
protein, *Triticum* 158,1000,1014, 1016,1019-1020
ribulose diphosphate carboxylase, *Zea*, maize 9570
tryptophan, *Zea*, maize 8716
Chemicals, cytological effects
allyl isothiocyanate, *Pisum* 8402
deoxyadenosine, *Allium*, onion 27
N-nitroso-*N*-ethylurea, *Aegilops* 8442
Chemicals, fertility and sex, effects
alar, *Nephelium*, longan 7575
2-chloroethanephosphonic acid, *Cucumis*, cucumber 10101
Chemicals, general effects
chloramphenicol, *Solanum*, potato 7033
chorial, *Zea*, maize, 8703
dichlofluanide, *Fragaria* 7304
herbicides
Prunus, peach 8167
Triticum 4890
Chemicals, mutagenic effects
1,4-bisdiazoacetylbutane, *Triticum* 9434
ethyleneimine
Hordeum 6870
Lycopersicon 7431
N-nitroso-*N*-ethylurea, *Panicum* 5878
N-nitroso-*N*-methylurea
Datura 9930
Triticum 1776
Chromosomes, aberrations
Beta, sugar beet 9864
Cyamopsis 2829
Vicia, broad bean 8398
Vicia, vetch 9743
Chromosomes, substitution, *Tripsacum* × *Zea*, maize, 2640
***Citrus*, lemon**
polyembryony and twinning 9142
variety trials 5388
Cold resistance
fruit crops 8134
Secale × *Triticum* 8557
Sorghum 9660
Colocasia, chemicals, as nutrients, nitrogen 5263
Colour, *Malus* 8440
Combining ability, *Zea*, maize 229,245, 1071,1828
Corynebacterium, immunology 395
Crop plants
matrocliny 5625
pathology 5662
***Cucumis*, cucumber**, chemicals, fertility and sex, effects, 2-chloroethanephosphonic acid 10101
Cyamopsis
chromosomes, aberrations 2829
γ rays 2829
Diallel analysis
Hordeum, 3618
Zea, maize 1847
Dormancy, *Danthonia* 1974
Elymus* × *Agropyron, hybridization, intergeneric 5956
Fragaria, chemicals, general effects, dichlofluanide 7304
Fruit, *Trichosanthes* 9239
Fruit crops
cold resistance 8134
mutation, induced 588
Fruit, size, *Vaccinium* 6258
Fusarium
Linum 1295,2076
Lycopersicon, physiological races 1581
γ rays
Aegilops 9442
Aegilops × *Triticum* 7719
Brassica, turnip 5996
Cannabis 9833
Capsicum 9023
Cucumis, cucumber 10099
Cyamopsis 2829
fruit crops 9944
Glycine 9287
Gossypium 9808,9811
Hordeum 8747,9626-9627
Ipomoea 9797
Linum 8931
Lupinus 9749
Lycopersicon 9246
Malus 9064
Oryza 8787,9673
Phaseolus 9269,9272,10136
Pisum 9307,10155,10163
Prunus, cherry 9977,9979
Solanum 9025
Solanum, potato 9773
Triticum 9436,9439,9442,9456,9511
Vicia, vetch 9718,9743
Vitis 9180
Zea, maize 8713
Genetics
Lactuca, viruses 1538,3161
Oryza, growth period 6921
Phaseolus, *Xanthomonas* 7463
Zea, maize, quality, of edible product 4944
Genotype × environmental interaction, *Danthonia* 1974
Germination, *Danthonia* 1974
Gossypium
mutation, induced 7995
Phakopsora 2883
Growth period
Pisum 3246,4080,4741,7495,7641,9308
Vitis 2256,2258
Zea, maize 6800
Heliothis
Nicotiana 8979
Zea, maize 253,1103
Heterodera, *Hordeum* 7862
Heterosis, *Lupinus* 9749
Hordeum
chemicals, as plant constituents, amylase 8755
chemicals, mutagenic effects, ethyleneimine 6870
diallel analysis 3618
Heterodera 7862
Hybridization, *Beta*, mangel × *Beta*, sugar beet 8946
Hybridization, intergeneric
Apium × *Petroselinum* 3162
Elymus × *Agropyron* 5956
Secale × *Triticum* 8557-8559,8561,9446
Hybridization, interspecific
Populus 7343
Prunus, peach 9130
Hypera, *Medicago* 9722
Immunology
Corynebacterium 395
Lupinus 407
Juglans, quality, for nutrition 3116
Lactuca, genetics, viruses 1538,3161
Larix, *Pristiphora*, 5479
Leaf, size, *Pisum* 2384
Light, effect of
Danthonia 1974
Pisum 8406
Linum
Fusarium 1295,2076
Melampsora 942,1295
Lolium, polyploidy 7917-7918,8438,9701
Lupinus
γ rays 9749
heterosis 9749
immunology 407
Lycopersicon, *Fusarium*, physiological races 1581
Malus
colour 8440
pollination 3858,8141,8153,9035,9950
varieties, USA 4539
Matrocliny, crop plants 5625
Medicago
Hypera 9722
mixtures of crops or genotypes 8814
pollution, atmospheric 9737
synthetic varieties 9722
Melampsora, *Linum* 942,1295
Mixtures of crops or genotypes
Bromus 8814
Medicago 8814
Mutation, induced
fruit crops 588
Gossypium 7995
Prunus, cherry 9978
***Nephelium*, longan**, chemicals, fertility and sex, effects, alar 7575
Nicotiana
Heliothis 8979
Phytophthora, technique 8460
Oryza
genetics, growth period 6921
Pyricularia, physiological races 8798
variety trials, Peru 5089
Paspalum, apomixis 8447
Pelargonium, chemicals, as plant constituents, nucleic acids 2423
Phakopsora, *Gossypium* 2833
Phaseolus
Callosobruchus 8337
genetics, *Xanthomonas* 7463
Xanthomonas 814,2366-2367
Phytophthora, *Solanum*, potato 2864-2865, 3366,3742-3743
***Phytophthora*, technique**
Nicotiana 8460
Solanum, potato 7031,9790
Pisum
chemicals, cytological effects, allyl isothiocyanate 8402
growth period 3246,4080,4741,7495, 7641
light, effect of 8406
seed, texture 3246
Pollination
Cajanus 10175
Malus 3858,8141,8153,9035,9950
Pollution, atmospheric, *Medicago* 9737
Polyploidy
Beta, mangel × *Beta*, sugar beet 8946
Beta, sugar beet 9866
Lolium 7917-7918,8438,9701
Populus, hybridization, interspecific
Pristiphora, *Larix* 5479
***Prunus*, cherry**, mutation, induced 9978
***Prunus*, peach**
chemicals, general effects, herbicides 8167
hybridization, interspecific 9130
Puccinia
Avena 9527
cereals, physiological races 9398
Secale × *Triticum* 8557
Triticum, physiological races 1811
Pyricularia, *Oryza*, physiological races 8798
Quality, for nutrition, *Juglans* 3116
Rhizobium, *Tephrosia*, physiological races 5960
***Ribes*, black currant**, variety trials, Rumania 6524

Secale* × *Triticum
cold resistance 8557
hybridization, intergeneric 1015,1170, 8557-8559,8561
Puccinia 8557-8558,8572
Seed, texture, *Pisum* 3246
***Solanum*, potato**
anatomy 9779
chemicals, as nutrients, miscellaneous 425
chemicals, as plant constituents, pigments 9783
chemicals, general effects, chloramphenicol 7033
Phytophthora 2864-2865,3366,3742-3743
Phytophthora, technique 9790
Sorghum
cold resistance 9660
sowing and planting date 9660
Sowing and planting date, *Sorghum* 9660
Taxonomy, *Agropyron* 5955
Tephrosia, *Rhizobium*, physiological races 5960
Trichosanthes, fruit 9239
Tripsacum × *Zea*
apomixis 2640
chromosomes, substitution 2640
Triticum
chemicals, as plant constituents, protein 1020,1034,1761,1771,1785, 2571
chemicals, general effects, herbicides 4890
chemicals, mutagenic effects, *N*-nitroso-*N*-methylurea 1776
Puccinia, physiological races 1811,1813
Triticum* × *Secale, hybridization, intergeneric 9446
Vaccinium, fruit, size 6258
Varieties
Brassica, sprouting broccoli, UK 5497
Brassica, turnip, Netherlands 7633
Malus, USA 4539
***Vicia*, broad bean**
chromosomes, aberrations 8398
X rays 8398
***Vicia*, vetch**
chromosomes, aberrations 9743
γ rays 9743
germination 9743
radioactive isotopes 9743
Vitis, growth period 2256,2258
X rays, *Vicia*, broad bean 8398
Xanthomonas, *Phaseolus* 814,2366-2367
***Zea*, maize**
chemicals, as plant constituents, tryptophan 8716
chemicals, general effects, chorial 8703
combining ability 229,245,1071,1828
diallel analysis 1847
genetics, quality, of edible product 4944
growth period 6800

OTHER PUBLICATIONS OF THE COMMONWEALTH BUREAU OF PLANT BREEDING AND GENETICS

TECHNICAL COMMUNICATIONS

	£
Joint Publication No. 5. The Production of Seed of Root Crops and Vegetables	0.25
Joint Publication No. 8. Forest Tree Breeding and Genetics, by R.H. Richens	0.25
6. The Action and Use of Colchicine in the Production of Polyploid Plants, by J.L. Fyfe	0.25
12. The New Genetics in the Soviet Union, by P.S. Hudson and R.H. Richens	0.30
13. The Use of Heterosis in the Production of Agricultural and Horticultural Crops, by Miss T. Ashton	0.25
14. Technique of Breeding for Drought Resistance in Crops, by Miss T. Ashton	0.25
15. Field Trials II: The Analysis of Covariance, by J. Wishart	0.25
16. The Theory and Practice of the Backcross Method in Breeding of Non-Cereal Crops, by Mrs. M. Thomas	0.75
17. Abstract Bibliography of Cotton Breeding and Genetics, 1900-1950, by R.L. Knight	1.05
18. Principles and Practice of Field Experimentation, by J. Wishart and H.G. Sanders. 2nd Edition	1.05
19. Crop Improvement in East Africa, edited by C.L.A. Leakey	3.00

ABRIDGED TRANSLATION

Cultivated Plants and their Wild Relatives, by P.M. Žukovskij	0.50

COPYRIGHT REGULATIONS: Form of Declaration and Undertaking

To the Commonwealth Bureau of Plant Breeding and Genetics, Department of Applied Biology, Cambridge, CB2 3DX, England:

1. I .....

of .....

.....

hereby request you to make and supply to me a photocopy of the article covered by Abstract No. .....

..... Plant Breeding Abstracts, Volume.....) which I require for the purposes of research or private study.

2. I have not previously been supplied with a copy of the said article/part of the said work by any librarian.

3. I undertake that if a copy is supplied to me in compliance with the request made above, I will not use it except for the purposes of research or private study.

Signature* ..... Date .....

(*Note: This must be the personal signature of the person making the request. A stamped or typewritten signature or the signature of an agent is NOT sufficient.)

4. Send this form and remittance (7p per page by surface mail, or 8p per page by 2nd class airmail) to the above address.

(Note: Additional forms are available on request.)

CAB JOURNALS

ANNUAL SUBSCRIPTION RATES 1973

The abstract journals form one part of the range of services in agricultural sciences provided by CAB and provide a total of well over 100 000 abstracts and citations by title each year. They constitute the only comprehensive coverage in English of the world literature on agriculture and related sciences and are available at prices well below the cost of production (except *Food Science and Technology Abstracts*) because CAB is subsidized by the contributing countries*.

From 1973 the journals will be produced by computer techniques, and a consolidated data base created from which new services will be developed. Most journals will issue monthly, and in due course all data will be available on magnetic tape. The format of the 1973 journals has been changed in order to conform with international standards and in the interests of economy.

Title	Rate to Subscribers in contributing countries	Rate to Subscribers in non-contributing countries	
	£	£	$U.S.
Review of Applied Entomology (Monthly)			
Series A. Agricultural	10.00	26.00	67.50
Series B. Medical and Veterinary	4.00	10.00	26.00
Bulletin of Entomological Research (Quarterly)	7.00	10.00	26.00
Review of Plant Pathology (Monthly)	12.00	31.00	80.50
Review of Medical and Veterinary Mycology (Quarterly)	4.00	10.00	26.00
Helminthological Abstracts			
Series A. Animal and Human Helminthology (Monthly)	10.00	25.00	65.00
Series B. Plant Nematology (Quarterly)	4.00	10.00	26.00
World Agricultural Economics and Rural Sociology Abstracts (Monthly)	9.00	22.00	57.00
Animal Breeding Abstracts (Monthly)	12.00	30.00	78.00
Veterinary Bulletin (Monthly)	14.00	35.00	91.00
Index Veterinarius (Monthly)	18.00	45.00	117.00
Nutrition Abstracts and Reviews (Monthly)	18.00	45.00	117.00
Dairy Science Abstracts (Monthly)	12.00	30.00	78.00
Forestry Abstracts (Monthly)	16.00	40.00	104.00
Horticultural Abstracts (Monthly)	14.00	35.00	91.00
Herbage Abstracts (Monthly)	8.00	20.00	52.00
Field Crop Abstracts (Monthly)	10.00	25.00	65.00
***Plant Breeding Abstracts* (Monthly)**	**14.00**	**35.00**	**91.00**
Soils and Fertilizers (Monthly)	14.00	35.00	91.00
Weed Abstracts (Monthly)	8.00	20.00	52.00
Food Science and Technology Abstracts (produced in collaboration with Institut fur Dokumentationswesen, Institute of Food Technologists, PUDOC and Zentralstelle fur maschinelle Dokumentation) (Monthly)	100.00	100.00	260.00

All the above journals are obtainable (post free) from;
CENTRAL SALES BRANCH
COMMONWEALTH AGRICULTURAL BUREAUX
FARNHAM HOUSE, FARNHAM ROYAL, SLOUGH SL2 3BN, U.K.

Loss in Transit: Claims for numbers of any journal lost in transit will only be considered if notice of such loss is received within THREE MONTHS of the date of posting.

*The following Governments subsidize CAB: The United Kingdom of Great Britain and Northern Ireland, Canada, Australia, New Zealand, India, Sri Lanka, Ghana, Malaysia, Nigeria, Cyprus, Sierra Leone, Tanzania, Jamaica, Trinidad and Tobago, Uganda, Kenya, Malawi, Zambia, The Gambia, Guyana, Botswana, Barbados, Mauritius, Swaziland, Fiji, Dependent Territories and the Republic of Ireland (Associate Government). The Associated States of the Eastern Caribbean have been invited to become members of CAB.

PRINTED BY UNWIN BROTHERS LTD., THE GRESHAM PRESS, OLD WOKING, SURREY, U.K.